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DMS-DR 2464  
NASA-CR 160,829  
VOLUME 2 OF 6

RESULTS OF HEAT TRANSFER TESTS IN THE  
ARNOLD ENGINEERING DEVELOPMENT CENTER -  
VON KARMAN FACILITY TUNNELS A AND B UTILIZING  
SPACE SHUTTLE ORBITER THIN SKIN THERMOCOUPLE MODE  
56-0, 60-0 AND 83-0

TESTS: OH-84B, OH-105, IH-102

# SPACE SHUTTLE AEROTHERMODYNAMIC DATA REPORT

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D100 332S  
#29

Data Management SERVICES

HUNTSVILLE ELECTRONICS DIVISION



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# PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Report  
 TITLE: Results of Heat Transfer Tests in the Arnold Engineering Develop-  
ment Center - Von Karman Facility Tunnels A and B Utilizing Space Shuttle  
Orbiter Thin Skin Thermocouple Models 56-0, 60-0, and 83-0.  
Tests OH84B, OH-105, IH102 (Volume 2 of 6)  
 NUMBER: DMS-DR-2464 DATE: May 1981 BRANCH: Chrysler/DMS  
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## REASON FOR CHANGE:

Revise Yo geometry label for thermocouples 87A, 88A and 89A as follows:

Thermocouple No.	X0	Yo	
		Original	Revised
87A	9.799	1.709	1.101
88A	9.705	1.101	0.672
89A	9.717	0.672	1.709

Data replacements have been generated and a publication change effected to Table V for all volumes and for data tabulations for all affected volumes.

This page is an errata sheet and is to remain a permanent part of DR-2464. Replace page 85 of the text material and pages 1536-1655 of the tabulated data in the appendix.

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PAGE 1 OF 1

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May 1981

DMS-DR 2464  
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56-0, 60-0 AND 83-0

TESTS: OH-84B, OH-105, IH-102

by

J. W. Foust  
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Space Transportation System Development and Production Division

Prepared under NASA Contract Number NAS9-16283

by

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Chrysler Huntsville Electronics Division  
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New Orleans, La. 70189

for

Engineering Analysis Division  
  
Johnson Space Center  
National Aeronautics and Space Administration  
Houston, Texas



WIND TUNNEL TEST SPECIFICS:

Test Number: V41A-67 (Tunnel A), V41B-67 (Tunnel B)  
NASA Series Number: IH102 (Tunnel A), OH84B, OH105 (Tunnel B)  
Model Number: 56-0, 60-OTS, 83-0  
Test Dates: May 2 thru May 23, 1979  
Occupancy Hours: OH84B: 58.3  
OH105: 12.8  
IH102: 39.6  
TOTAL: 110.7

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RESULTS OF HEAT TRANSFER TESTS IN THE  
ARNOLD ENGINEERING DEVELOPMENT CENTER -  
VON KARMAN FACILITY TUNNELS A AND B UTILIZING  
SPACE SHUTTLE ORBITER THIN SKIN THERMOCOUPLE MODELS  
56-0, 60-0 AND 83-0

TESTS: OH-84B, OH-105, IH-102

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ABSTRACT

A series of thin-skin thermocouple heat transfer tests were conducted using scaled Space Shuttle models in the Arnold Engineering Development Center, von Karman facility (AEDC-VKF) Supersonic Wind Tunnel A and Hypersonic Wind Tunnel B to determine aerodynamic heating on the Space Shuttle orbiter where data extrapolation or analytical predictions were not feasible and where previous data did not exist. Secondary test objectives were to obtain limited yaw data and to obtain contingency abort trajectory data. The test series consisted of NASA tests OH84B and OH105 in Tunnel B and IH102 in Tunnel A with Space Shuttle orbiter models 56-0 (0.0175 scale), 60-0 (0.0175 scale), and 83-0 (0.040 scale) configured into ten different model installations. Included in the ten installations tested were each orbiter model and the two 0.0175 scale models integrated with the 0.0175 scale external tank and solid rocket boosters.

Data were recorded at Mach numbers 3 and 4 in Tunnel A with simulated Reynolds numbers of  $1.0 \times 10^6/\text{ft}$  to  $4.0 \times 10^6/\text{ft}$  and at Mach 8 in Tunnel B with simulated Reynolds numbers of  $0.5 \times 10^6/\text{ft}$  to  $3.7 \times 10^6/\text{ft}$ . Model angle of attack varied from  $-40$  to  $+40$  degrees. Model yaw angle varied from  $-15$  to  $+10$  degrees. The high negative angle of attack was a contingency abort trajectory simulation.

All objectives of the test series were fulfilled. Six hundred and eight (608) data runs were obtained to support the test objectives, 383 for test OH84B, 78 for test OH105, and 147 for test IH102.

The model configurations, instrumentation, test procedures, and data reduction are described in this report.

Tabulated heat transfer data are presented in the Appendix. Volumes 1-4 contain OH84B tabulations; likewise, Volume 5 contains OH105, and Volume 6 contains IH102.

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## INTRODUCTION

Aerodynamic heating can be complex during the Space Shuttle flight cycle due to the exposure of the somewhat conventional airplane-shaped orbiter to the launch and reentry environments. A test series was conducted in the Arnold Engineering Development Center, von Karman Facility 40-inch Supersonic Wind Tunnel A and 50-inch Hypersonic Wind Tunnel B during the period May 2-23, 1979 to obtain heat transfer data in regions of the Space Shuttle orbiter where data extrapolation or analytical prediction are not feasible and where previous data did not exist. Additional objectives were to obtain limited yaw data and to obtain contingency abort trajectory data. The test series combined three NASA tests, OH84B, OH105, and IH102, using three Space Shuttle orbiter scaled models, 56-0 (0.0175 scale), 60-0 (0.0175 scale), and 83-0 (0.040 scale), installed in ten different configurations.

Data were recorded from the orbiter models at Mach numbers 3 and 4 in Tunnel A for nominal Reynolds numbers ranging from  $1.0 \times 10^6/\text{ft}$  to  $4.0 \times 10^6/\text{ft}$  and at Mach number 8 in Tunnel B for nominal Reynolds numbers ranging from  $0.5 \times 10^6/\text{ft}$  to  $3.7 \times 10^6/\text{ft}$ . Model angle of attack ranged from -40 to +40 degrees with model angle of sideslip varying from -15 to +10 degrees.

Results of the test series are presented in this report.



# NOMENCLATURE

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
$a_1, a_2, a_3$		Constants used to calculate R
$\alpha$	ALPHA	Model angle of attack, degrees
AEDC		Arnold Engineering Development Center
b		Model skin thickness, inches
$\beta$	BETA	Model sideslip angle, degrees
Con.Set		Set of thermocouples recorded together
COORD1		First thermocouple location coordinate
COORD2		Second thermocouple location coordinate
Cp		Model skin material specific heat, Btu/lbm-°R
C.R.		Center of Rotation
DTWDT	DTWDT	Time rate of change of wall temperature, °R/sec.
$\delta_{BF}$	BDFLAP	Body flap deflection angle, degrees
$\delta_e$	ELEVON	Elevon deflection angle, degrees
$\delta_{SB}$	SPDBRK	Speedbrake deflection angle, degrees
$\epsilon$		Incidence angle of local model surface, degrees
HREF	HREF HREF-FR	Reference heat transfer coefficient based on Fay and Riddell theory, Btu/ft <sup>2</sup> - sec - °R
H(RTO)	H(RTO)	Heat transfer coefficient based on RTO, Btu/ft <sup>2</sup> - sec - °R
	H(TAW)	Heat transfer coefficient based on TAW, Btu/ft <sup>2</sup> - sec - °R

# NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
L		Reference length, inches
MACH NO	MACH	Mach number
$\mu$	MU	Freestream viscosity, lbf-sec/ft <sup>2</sup>
MUO		Viscosity based on stagnation temperature, lbf-sec/ft <sup>2</sup>
PO	PO	Tunnel stilling chamber pressure, psia
P-INF	P	Freestream static pressure
PO2		Stagnation pressure downstream of normal shock, psia
$q$ Q-INF	Q-INF Q	Tunnel freestream dynamic pressure, psi
	QDOT	Heat transfer rate, Btu/ft <sup>2</sup> -sec
RE/FT RN	RN/L	Reynolds number per unit length
R	TAW/TO	Analytical temperature ratio
RTO		Tunnel stilling chamber pressure adjusted for theoretical recovery factor, °R
RHO-INF	RHO	Free stream density, lbm/ft <sup>3</sup> .
STFR	STN NO	Stanton number based on HREF
SW.Pos		Switch position
$t_i$		Time when initial model wall temperature was recorded before model injection, seconds
t		Time from start of model injection cycle, seconds

# NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
TAW	TAW	Computed adiabatic wall temperature, °R
T/C	T/CNO.	Thermocouple number
	T	Tunnel freestream static temperature, °R
TO	TO	Tunnel stilling chamber temperature, °R
TW		Model wall temperature at midpoint of data interval, °R
TW <sub>i</sub>		Initial model wall temperature before injection, °R
V-INF	V	Tunnel freestream velocity, ft/sec
VKF		Von Karmen Facility
w		Model skin material density, lbm/ft <sup>3</sup>
	WINDOW	Window number where specific thermocouples are located
X	XO MS	Model scale axial coordinate from model nose or leading edge of wing or vertical tail, inches
X <sub>o</sub>		Model scale axial coordinate from a point 235 inches (FS) ahead of the orbiter nose, inches
X/C	XV/CV	Percent of vertical tail chord
X/L		Thermocouple axial location from model nose as a ratio to model length
X <sub>n</sub>		Model scale axial coordinate of nozzle, inches
Y	YO MS	Model scale lateral coordinate, inches
Y <sub>o</sub>		Full scale lateral coordinate, inches

# NOMENCLATURE (Concluded)

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
Z	ZO MS	Model scale vertical coordinate, inches
Zo		Full scale vertical coordinate, inches
Z/B	ZV/BV	Percent of vertical tail span
2Y/B	2Y/B	Ratio of thermocouple distance from model centerline to model semispan
$\phi$	PHI	Radial angle of thermocouple in model coordinates, degrees
$\phi_n$		Radial angle of thermocouple on nozzle, degrees

### REMARKS

In presenting heat-transfer coefficient results, it is convenient to use reference coefficients to normalize the data. Equilibrium stagnation point values derived from the work of Fay and Riddell (Reference 6) were used to normalize the data obtained in this test. These reference coefficients are given by:

$$H_{REF} = \frac{8.17173(P_{O2})^{0.5} (\mu_{O2})^{0.4} \left[ 1 - \frac{(P - P_{INF})}{P_{O2}} \right]^{0.25} \left[ 0.2235 + (1.35 \times 10^{-5})(T_{O2} + 560) \right]}{(R_N)^{0.5} (T_{O2})^{0.15}}$$

$$STFR = \frac{H_{REF}}{(R_{HO} - P_{INF}) (V - P_{INF}) \left[ 0.2235 + 1.35 \times 10^{-5} (T_{O2} + 560) \right]}$$

### CONFIGURATIONS INVESTIGATED

Three Space Shuttle orbiter models were used to obtain the thin-skin thermocouple data for this test. Two of the test articles were 0.0175 scale models of the full orbiter and were designated as the 60-Ø and 56-Ø models. The third model was a 0.04 scale, 50 percent forebody model of the orbiter, and was identified as the 83-Ø model. All of the models were supplied by Rockwell International.

The 60-Ø model was a 0.0175 scale thin-skin thermocouple model of the Rockwell International Vehicle 5 configuration. The model was constructed of 17-4 PH stainless steel with a nominal skin thickness of 0.030 in. at the instrumented areas. All thermocouples were spot welded to the thin-skin inner surface.

A photograph of the 60-Ø model injected in the Tunnel B test section is shown in Figure 1. The basic dimensions and coordinate definitions for the 0.0175 scale model are shown in the sketch presented in Figure 2. The deflection angles of the speedbrake, body flap and elevons were varied during these tests and recorded on the tabulated data.

The 56-Ø model was a 0.0175 scale phase change paint model with the same external contour as the 60-Ø model except for the vertical tail. The vertical tail used was a slab tail of extended span used for previous oil flow tests to determine flow orientation at the leading edge. The pilot side

## CONFIGURATIONS INVESTIGATED (Continued)

(left) of the fuselage has been replaced with a thin-skin thermocouple insert contoured to the vehicle lines. This insert was constructed of 17-4 PH stainless steel with a nominal skin thickness of 0.020 in. at the thermocouple locations. A photograph of the 56-Ø model injected in Tunnel A is shown in Figure 3. The dimensions and coordinate system presented in Figure 2 also apply to the 0.0175 scale 56-Ø model.

The 83-Ø model was a 0.04 scale model of the forward 50 percent of the orbiter. This model was also constructed of 17-4 PH stainless steel with a nominal skin thickness of 0.030 in. A photograph of the 83-Ø model injected in Tunnel B is shown in Figure 4. The coordinate system and basic dimensions for the 83-Ø model are presented in Figure 5.

Each of the orbiter models was installed in more than one configuration to fulfill the test requirements of Mach number (Tunnel selection), angle of attack, and yaw. Both the 56-Ø and the 60-Ø models were tested as the orbiter alone and were also mated with the external tank and both solid rocket boosters, designated as the OTS configuration. Installation sketches of each of the ten configurations are presented in Figure 6. The installations illustrated in Figures 6c and 6d each represent two configurations by interchanging the 56-Ø and 60-Ø models. Each installation was identified with a configuration code that is listed in Table 4.

## CONFIGURATIONS INVESTIGATED (Continued)

### Model Nomenclature

Nomenclature used to describe the various components of the three models used for these tests are:

#### Model 56-0 Orbiter (Vehicle 5 Configuration, VL70-00140C Lines)

B <sub>62</sub>	Fuselage
C <sub>12</sub>	Canopy
E <sub>52</sub>	Elevon
F <sub>10</sub>	Body Flap
M <sub>16</sub>	OMS Pod
V <sub>30</sub>	Vertical Tail
W <sub>127</sub>	Wing

#### Model 60-0 Orbiter (Vehicle 5 Configuration, VL70-00140C Lines)

B <sub>62</sub>	Fuselage
C <sub>12</sub>	Canopy
E <sub>52</sub>	Elevon
F <sub>10</sub>	Body Flap
M <sub>16</sub>	OMS Pods
R <sub>18</sub>	Rudder
V <sub>8</sub>	Vertical Tail
W <sub>116</sub>	Wing



# CONFIGURATIONS INVESTIGATED (Concluded)

Model 60-0 External Tank and SRB's (Vehicle 5 Configuration, VC72-000002F Shuttle Configuration Control)

T <sub>38</sub>	External Tank (Spike Nose), VC78-000002E Lines
S <sub>26</sub>	Solid Rocket Booster, VC77-000002G and VC77-000003F Lines

Model 83-0 Orbiter (VL70-000140C Lines)

B <sub>60</sub>	Fuselage
C <sub>10</sub>	Canopy

Full scale and model scale dimensional data for the various components of the three models can be found in Table III.

Further model description, including some model drawings, can be found in References 1-3.

## INSTRUMENTATION

### Test Conditions

Tunnel A stilling chamber pressure was measured with a 15-, 60-, 150-, or a 300-psid transducer referenced to a near vacuum. Based on periodic comparisons with secondary standards, the accuracy (a bandwidth which includes 95 percent of the residuals, i.e.  $2\sigma$  deviation) of these transducers is estimated to be within  $\pm 0.2$  percent of pressure or  $\pm 0.015$  psi, whichever is greater. Stilling chamber temperature was measured with a copper-constantan thermocouple with an accuracy of  $\pm 3^{\circ}\text{F}$ .

Tunnel B stilling chamber pressure was measured with a 200- or 1000-psid transducer referenced to a near vacuum. Based on periodic comparisons with secondary standards, the accuracy of the transducers is estimated to be within  $\pm 0.25$  percent of pressure or  $\pm 0.3$  psi, whichever is greater for the 200-psid range and  $\pm 0.25$  percent of pressure or  $\pm 0.8$  psi, whichever is greater for the 1000-psid range. Stilling chamber temperature measurements were made with Chromel<sup>®</sup>-Alumel<sup>®</sup> thermocouples which have an uncertainty of  $\pm (1.5^{\circ}\text{F} + 0.375 \text{ percent of reading in } ^{\circ}\text{F})$ .

### Test Data

The 60-Ø model instrumentation consisted of 600 thirty gauge iron-constantan and chromel-constantan thermocouples. Thermocouple locations for this model are illustrated in Figure 7; the dimensional locations and

## INSTRUMENTATION (Continued)

skin thickness are listed in Table V. The thermocouples identified by a number only are iron-constantan. The thermocouples identified by a number followed by the letter A or C are chromel-constantan. The letter A designates a new thermocouple location added specifically for this test. The letter C designates the location of a previously existing thermocouple which has been repaired with chromel-constantan wire.

The 56-Ø model instrumentation consisted of 80 thirty gauge chromel-constantan thermocouples located on the thin-skin insert. The thermocouple locations for this model are illustrated in Figure 8. The dimensional locations and skin thicknesses are listed in Table VI.

The 83-Ø model was instrumented with 482 thirty gauge chromel-constantan thermocouples as illustrated in Figure 9. The dimensional locations and skin thicknesses for the thermocouples on this model are listed in Table VII.

Data from a maximum of 97 thermocouples in Tunnel B and 96 thermocouples in Tunnel A could be recorded during each tunnel injection. Seventeen sets of thermocouples were required to accommodate the large number of thermocouples on this test. These sets are called Constant Sets in Table II. A listing of the seventeen Constant Sets is given in Table VIII. This listing includes all of the thermocouples that were installed for the test. Some of the listed thermocouples were determined

#### INSTRUMENTATION (Concluded)

to be inoperative and these have been deleted from the tabulated data. A total of three Constant Sets could be connected at one time. A three position selector switch was used to select the desired Constant Set for each injection. The last digit of the Constant Set number usually indicates the selector switch position number. The specific Constant Sets that were connected for each model configuration are listed in Table IV.

### TEST FACILITY DESCRIPTION

The von Karmen Gas Dynamics Facility (VKF) consists of multiple wind tunnels, ranges and chambers and is located within the Arnold Engineering Development Center (AEDC) in Tullahoma, Tennessee. The supersonic Tunnel A and hypersonic Tunnel B are part of this complex.

Tunnels A and B (Figures 10 and 11) are continuous, closed-circuit, variable density wind tunnels. Tunnel A has an automatically driven flexible-plate-type nozzle and a 40- by 40-in. test section. The tunnel can be operated at Mach numbers from 1.5 to 6 at maximum stagnation pressures from 29 to 200 psia, respectively, and stagnation temperatures up to 750°R at Mach number 6. Minimum operating pressures range from about one-tenth to one-twentieth of the maximum at each Mach number.

Tunnel B has a 50-in.-diam test section and two interchangeable axisymmetric contoured nozzles to provide Mach numbers of 6 and 8. The tunnel can be operated continuously over a range of pressure levels from 20 to 300 psia at Mach number 6, and 50 to 900 psia at Mach number 8, with air supplied by the VKF main compressor plant. Stagnation temperatures sufficient to avoid air liquefaction in the test section (up to 1350°R) are obtained through the use of a natural gas fired combustion heater. The entire tunnel (throat, nozzle, test section, and diffuser) is cooled by integral, external water jackets. Each tunnel is equipped with a model injection system which allows removal of the model from the test section

#### TEST FACILITY DESCRIPTION (Concluded)

while the tunnel remains in operation. A description of the tunnels may be found in Reference 4.

## TEST PROCEDURES

The test was conducted at a nominal Mach number of 8 in Tunnel B and nominal Mach numbers of 3 and 4 in Tunnel A. A summary of the specific test conditions is given in Table I. A more detailed test summary showing all configurations tested and the variables for each is presented in Table II.

In the VKF continuous flow wind tunnels (A and B), the model is mounted on a sting support mechanism in an installation tank directly underneath the tunnel test section. The tank is separated from the tunnel by a pair of fairing doors and a safety door. When closed, the fairing doors, except for a slot for the pitch sector, cover the opening to the tank, and the safety door seals the tunnel from the tank area. After the model is prepared for a data run, the personnel access door to the installation tank is closed, the tank is vented to the tunnel flow, the safety and fairing doors are closed. After the data are obtained, the model is retracted into the tank, and the sequence is reversed with the tank being vented to atmosphere to allow access to the model in preparation for the next run, if necessary. The sequence is repeated for each configuration change.

The initial step prior to recording the test data in each tunnel was to cool the model uniformly to approximately 80°F with high pressure air. Once the cooling cycle was complete, the desired model attitude was

## TEST PROCEDURES (Concluded)

established in the tank prior to injection. With the desired tunnel free stream conditions established, the model was then injected into the tunnel. At lift-off, the initial temperature,  $TW_i$ , for each thermocouple on the selected Constant Set was recorded. In Tunnel A, the data acquisition sequence was started prior to the model reaching the airstream. When the model reached tunnel centerline, it was translated to the forward test section to clear an area of tank induced shock impingement. The data acquisition sequence continued until the model reached the full forward position, approximately 8 seconds after lift-off. In Tunnel B, the model was injected directly into the test section. Therefore, the data acquisition sequence was initiated at lift-off and continued for approximately 3 seconds after the model reached the tunnel centerline. After each injection the model was retracted, and the cycle was repeated to cool the model to an isothermal state.

A Beckman<sup>®</sup> 210 analog-to-digital converter was used in conjunction with a Digital Equipment Corp.<sup>®</sup> (DEC) PDP-11 computer and a DEC-10 computer to record the temperature data. The Beckman<sup>®</sup> converter sampled the output of each thermocouple approximately 15 times per second (0.068 seconds per sample).



### DATA REDUCTION

The reduction of thin-skin thermocouple data normally involves only the calorimetric heat balance, which, in coefficient form is

$$H(TO) = wbc_p \frac{DTWDT}{TO-TW} \quad (1)$$

Radiation and conduction losses are neglected in this heat balance, and data reduction simply requires evaluation of DTWDT from the temperature-time data and determination of model material properties. For the present tests, radiation effects were negligible; however, conduction effects were potentially significant in several regions of the model. To permit identification of these regions and improve evaluation of the data, the following procedure was used.

Separation of variables and integration of Eq. (1) assuming constant  $w$ ,  $b$ ,  $c_p$ , and  $TO$  yields

$$\frac{H(TO)}{wbc_p} (t - t_i) = \ln \frac{TO-TW_i}{TO-TW} \quad (2)$$

Since  $H(TO)/wbc_p$  is a constant, plotting  $\ln [(TO-TW_i)/(TO-TW)]$  versus time will give a straight line if conduction is negligible. Thus, deviations from a straight line can be interpreted as conduction effects.

The data were evaluated in this manner and, generally, a reasonably linear portion of the curve could be found for all thermocouples. A linear

# DATA REDUCTION (Continued)

least-squares curve fit of  $\ln|(T_0 - T_{W_i})/(T_0 - T_W)|$  versus time was applied to the data. In Tunnel A the data reduction time was delayed for all thermocouples that were influenced by the tank induced shock until they had cleared this region. The data reduction time for Tunnel B was typically started at centerline. However, the data for Runs 5-239 were reduced starting 0.4 seconds after centerline to obtain a linear portion of the curve. The curve fit extended for a time span which was a function of the heating rate, as shown on the following list.

<u>Range</u>	<u>Number of Points</u>	<u>Time Span, sec.</u>
DTWDT > 32	5	0.27
16 < DTWDT ≤ 32	7	0.41
8 < DTWDT ≤ 16	9	0.54
4 < DTWDT ≤ 8	13	0.82
2 < DTWDT ≤ 4	17	1.09
1 < DTWDT ≤ 2	25	1.63
DTWDT ≤ 1	41	2.72

In general, the time spans given above were adequate to keep the evaluation of the right-hand side of Eq. (2) within the linear region. The value of  $c_p$  was not constant, as assumed, and the relation

$$c_p = 0.0797 + (5.556 \times 10^{-5}) TW, \text{ (17-4 PH stainless steel)} \quad (3)$$

was used with the computed value of TW at the midpoint of the curve fit. The maximum variation of  $c_p$  over any curve fit was less than 1.5 percent.

## DATA REDUCTION (Continued)

Thus, the assumption of constant  $c_p$  was reasonable. The value of density used for the 17-4 PH stainless steel skin was,  $w = 490 \text{ lbm/ft}^3$ , and the skin thickness,  $b$ , for each thermocouple is listed in Tables V, VI and VII. The four thermocouples (T/C No. 428, 429, 430, and 431) on the base of the 60- $\emptyset$  model, see Figure 7i, were attached to 15-5 PH stainless steel. The value of density for the 15-5 PH stainless steel was  $490.75 \text{ lbm/ft}^3$ , and the value of  $c_p$  was

$$c_p = 0.0645 + (5.8 \times 10^{-5}) \text{ TW, Btu/lbm-}^\circ\text{R.} \quad (4)$$

The heat-transfer coefficient calculated from Eq. 2 was normalized using the Fay-Riddell stagnation point coefficient,  $H_{REF}$ , based on a nose radius of 1.0 ft full scale (see Remarks section).

In addition to computing heat-transfer coefficient using  $T_0$  as the assumed adiabatic wall temperature,  $T_{AW}$ , coefficients were computed using an assumed  $T_{AW}$  of  $0.95 T_0$  and a computed value of  $R T_0$  for the data in Tunnel A and  $0.9 T_0$  and  $R T_0$  for the data in Tunnel B. The value of  $R$  is defined as  $T_{AW}/T_0$ . The value of  $R$  was computed by the following equation supplied by Rockwell International (Reference 5).

$$R = a_1 + (a_2)(\sin(\alpha + \epsilon))^{a_3} \quad (5)$$

where  $\alpha$  is the model angle of attack and  $\epsilon$  is the local model surface deflection angle at a selected thermocouple location. The values of  $a_1$ ,  $a_2$ , and  $a_3$  for each Mach number are:

# DATA REDUCTION (Concluded)

<u>MACH NO.</u>	<u>a<sub>1</sub></u>	<u>a<sub>2</sub></u>	<u>a<sub>3</sub></u>
3.0	0.9345	0.1004	2.165
4.0	0.922	0.1004	1.965
8.0	0.867	0.133	1.55

The local model surface angles,  $\epsilon$ , for the appropriate thermocouples used in this test on the 60-Ø model are presented in Table IX. The local surface angles on the 83-Ø model are presented in Table X. For those thermocouples where  $\epsilon$  is not given, an R value of 0.95 was used for Mach numbers 3 and 4 and a value of 0.9 was used for Mach 8.

The method used to calculate the analytical temperature ratio, R, has been applied to all the tabulated data. However, in regions of separated flow or complex interaction, the basic assumptions no longer apply, and the computed values of R should be used with care.

The use of three assumed values of TAW provides an indication of the sensitivity of the heat-transfer coefficients to the value of TAW assumed. As can be noted in the tabulated data, there are large percentage differences in the values of the heat-transfer coefficients calculated from the three assumed values of TAW. Therefore, if the data are to be used for flight predictions, the value selected for TAW/TO is obviously very important.

Equations and methods documented in this section and used to reduce the resulting data from this test series were extracted directly from Reference 7.

## DISCUSSION OF RESULTS

The results of this test series, OH-84B, OH-105, and IH-102, were normalized heat transfer coefficients evaluated at the three assumed values of adiabatic wall temperature, TAW, for selected thermocouple locations on the 56-0, 60-0, and 83-0 models of the Space Shuttle orbiter. Data quality was determined by two factors: (1) the linear least squares curve fit of the log ratio versus time (see Data Reduction) and (2) comparison with previous data. Data quality for Tests OH-84B and OH-105 in Tunnel B were judged to be very good. Representative data from the lower centerline of the 60-0 model for Mach number 8 in Tunnel B are presented in Figure 12. The figure also shows data from a previous test of the same model which compares very well with the present data. Data quality for Test IH-102 in Tunnel A was not nearly as good as data from Tunnel B. The log ratio plots indicated that the thermocouples were strongly influenced by shocks emanating from the model installation tank and fairing doors as the model traversed forward on centerline. For runs where sideslip angles were required, data from thermocouples oriented toward the top of the test section would be significantly different than data from the same thermocouples oriented toward the bottom of the test section where the model installation tank was. In some cases where a pure sideslip angle was required, runs were repeated to orient the thermocouple toward the top of the test section. Therefore, although the Tunnel A data was completely reviewed at the facility before the final results were published, caution is required when using the data.

## DISCUSSION OF RESULTS (Continued)

Two types of heat transfer data resulted from this test series, tabulated and plotted. Tabulated data are presented in the Appendix; ØH84B in Vol. 1-4; ØH105 in Vol. 5 and IH102 in Vol. 6. The plotted data are data received by Rockwell while on-site. These data are not included in this report but Table XI delineates those thermocouples selected from each constant set to be plotted. The three NASA tests completed during this program were intermingled for running efficiency and are reported in this document as a group. The data presented in the Appendix are listed in consecutive order of the test data sets as outlined in Table II. The following will help separate the data by NASA test number and by model number.

<u>Runs</u>	<u>NASA Test No.</u>	<u>Model No.</u>	<u>Thermocouple Constant Sets</u>
5-203	OH-84B	60-0 (Base Sting)	111, 122, 133
204-239	OH-105	60-0	711, 722, 733
240-372	AFFDL*	60-0	-
373-385	OH-105	60-0	811
386-414	IH-102	56-0	311
415-443	OH-105	83-0	911, 922
444-555	IH-102	60-0	511, 522, 533
556-575	IH-102	83-0	411, 422
577-768	OH-84B	60-0 (Offset Sting)	211, 222

\*These tests were completed for the Air Force Flight Dynamics Laboratory using Model 60-0; data are not included in the Appendix.

## DISCUSSION OF RESULTS (Continued)

### DATA UNCERTAINTY

An evaluation of the influence of random measurement errors is presented in this section to provide a partial measure of the uncertainty of the final test results presented in this report. Although evaluation of the systematic measurement error (bias) is not included, it should be noted that the instrumentation accuracy values (see Instrumentation) used in this evaluation represent a total uncertainty combination of both systematic and two-sigma random error contributions.

Accuracy of the basic tunnel parameters  $P_0$  and  $T_0$  and the two-sigma deviation in Mach number determined from test section flow calibrations were used to estimate uncertainties in the other freestream properties, using the Taylor series method of error propagation; i.e.,

$$(\Delta F)^2 = \left( \frac{\partial F}{\partial X_1} \Delta X_1 \right)^2 + \left( \frac{\partial F}{\partial X_2} \Delta X_2 \right)^2 + \left( \frac{\partial F}{\partial X_3} \Delta X_3 \right)^2 + \dots + \left( \frac{\partial F}{\partial X_n} \Delta X_n \right)^2$$

where  $\Delta F$  is the absolute uncertainty in the dependent parameter  $F = f(X_1, X_2, X_3 \dots X_n)$ ;  $X_1, X_2, X_3 \dots X_n$  are the independent measurements; and  $\Delta X_1, \Delta X_2, \Delta X_3 \dots \Delta X_n$  are the errors in the independent measurements.

# DISCUSSION OF RESULTS (Concluded)

MACH NO.	Uncertainty ( $\pm$ ), percent					
	MACH NO.	PO	TO	P-INF	Q-INF	RE/FT
3.01	0.6	0.2	0.5	2.6	1.4	1.2
4.01	0.4	0.2	0.5	2.4	1.5	1.2
4.02	0.4	0.2	0.5	2.4	1.5	1.2
7.90	0.4	0.27	0.4	2.5	1.7	1.2
7.94	0.4	0.25	0.4	2.5	1.7	1.2
7.98	0.3	0.25	0.4	1.6	1.2	0.9
7.99	0.3	0.25	0.4	1.6	1.2	0.9
8.00	0.3	0.25	0.4	1.6	1.2	0.9

## Reduced Data

Estimated uncertainties for the individual terms in Eq. (2) were used in the Taylor series method of error propagation to obtain uncertainty values of heat-transfer coefficient as represented typically by the ranges listed below:

Range of H(TO)	Uncertainty ( $\pm$ ), percent	
	Tunnel A	Tunnel B
$10^{-4}$	15	10
$10^{-3}$	13	7
$10^{-2}$	10	5

These values assume that the uncertainty for the density, skin thickness, and specific heat of the thin skin material, as supplied by Rockwell are within  $\pm 1$ ,  $\pm 3$ , and  $\pm 5$  percent, respectively.



#### REFERENCES

1. W. F. Braddock, "Information for Testing the 0.0175-Scale Thin-Skin Thermocouple Model 60-0 in the AEDC VKF "B" Hypersonic Wind Tunnel, Test OH-84B," STS79-0248, May 11, 1979.
2. W. F. Braddock, "Information for Thin-Skin Heat Transfer Tests of Space Shuttle Orbiter Models 60-0 (0.0175-Scale) and 83-0 (0.04-Scale Forebody) in the AEDC VKF "B" Hypersonic Wind Tunnel, Test OH-105," STS79-0249, April 30, 1979.
3. W. F. Braddock, "Information for Thin Skin Heat Transfer Tests of the Space Shuttle 0.0175-Scale Launch Vehicle Model 56-0/60-TS, 0.04-Scale Orbiter Forebody Model 83-0, 0.0175-Scale Orbiter Model 60-0, and 0.0175-Scale Launch Vehicle Model 60-OTS in the AEDC VKF "A" Supersonic Wind Tunnel, Text IH-102", STS79-0239, April 30, 1979.
4. Test Facilities Handbook (Tenth Edition), "Von Karman Gas Dynamics Facility, Vol. 3," Arnold Engineering Development Center, May 1974.
5. Dr. Serge-Albert Waite, "Determination of Temperature Efficiency  $R = TAW/TO$  in Low Temperature Wind Tunnels (An Engineering Attempt)," NA-77-299, Prepared for the 47th Semi-Annual Meeting of the Supersonic Tunnel Association, April 1977.
6. J. A. Fay and F. R. Riddell, "Theory of Stagnation Point Heat Transfer in Dissociated Air;" *Journal of the Aeronautical Sciences*, Vol. 25, No. 2, February 1958.
7. K. W. Nutt, G. L. Dommerman, and A. C. Mansfield, "Test Results from the NASA/Rockwell International Space Shuttle Orbiter Tests (OH-84B, IH-102, and OH-105)," AEDC-TSR-79-V42, August 1979.

TABLE I. TEST CONDITIONS

Mach Number	Stagnation Pressure	Stagnation Temperature	Dynamic Pressure	Static Pressure	Reynolds Number
MACH NO.	PO, psia	TO, °R	Q-INF, psia	P-INF, psia	RE/FT x 10 <sup>-6</sup>
3.01	10	710	1.7	0.27	1.0
3.01	34		5.8	0.91	3.5
3.01	37		6.3	0.99	3.8
4.01	17		1.2	0.11	1.0
4.02	33		2.4	0.21	2.0
4.02	58		4.2	0.37	3.5
4.02	66	710	4.8	0.42	4.0
7.9	100	1250	0.5	0.01	0.5
7.94	205	1260	1.0	0.02	1.0
7.98	435	1300	2.0	0.05	2.0
7.99	670	1320	3.1	0.07	3.0
8.0	850	1350	3.9	0.09	3.7

TABLE II.

SHEET 1 of 7

JEV

TEST: $\phi$ H84B (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY								DATE: 6/20/79						
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS								REYNOLDS NUMBER $\times 10^6$ / FT						
		$\alpha$	$\beta$	$\delta_c$	$\delta_{RF}$	$\delta_{SB}$	M	Comp. Code	Sw. Pos.	Corr. Set	0.5	1.0	2.0	3.0	3.7	
** R44*01	60- $\phi$	25	0	0	0	49	8.0	10	3	133					5	
		25	0			49			1	111		9	8	7	6	
02		30	-4			0			1	111			155	116	129	
									2	122				117	130	
									3	133			157	118	131	
03			-2						1	111			152	113	126	
									2	122			153	114	127	
									3	133			154	115	128	
04			-1						1	111			149	110	122	
									2	122			150	111	123	
									3	133			151	112	125	
06			0						1	111	10		47	76	119	
									2	122	11		48	77	120	
									3	133	12		49	78	121	
07									3	133			148			
08			+1						1	111			50			
									2	122			51			
									3	133			52			
OR $\beta$ SCHEDULES																

TEST RUN NUMBERS

32

\*\* In the tabulated data, thermocouples numbered ###A appear as 2### and ###C appear as 1###.

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TABLE II (Continued)

SHEET 3 of 7

JEV

TEST: $\phi$ H84B (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 6/20/79					
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT					
		$\alpha$	$\beta$	$\delta_e$	$\delta_{BF}$	$\delta_{SR}$	M	CONK CODE	SW. POS.	Corr.		0.5	1.0	2.0	3.0	3.7	
R4U*15	60- $\phi$	40	-10	0	0	0	8.0	10	1	111		201	188	170	98		
									2	122		202	189	171	99		
									3	133		203	190	172	100		
17			-4						1	111		198	185	176	97		
									2	122		199	186	177	95		
									3	133		200	187	178	96		
18			-2						1	111		195	182	173	89		
									2	122		196	183	174	90		
									3	133		197	184	175	93		
20			-1						1	111		**191					
21									1	111		192	179	167	85		
									2	122		193	180	168	86		
									3	133		194	181	169	88		
22			0						1	111		16	32	73	82	145	
									2	122		17	33	74	83	146	
									3	133		18	34	75	84	147	
$\alpha$ OR $\beta$ _____ SCHEDULES _____																	

\*\* NO DATA AVAILABLE

TEST RUN NUMBERS

34

TABLE II (Continued)

SHEET 4 of 7

JEV

TEST: $\phi$ H84B (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 6/20/79				
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT				
		$\alpha$	$\beta$	$\delta_c$	$\delta_{RF}$	$\delta_{SB}$	M	CONK. CODE	SW. POS.	24		0.5	1.0	2.0	3.0	3.7
R44*24	60- $\phi$	40	0	0	0	0	8.0	10	3	133					87	
25			+1						1	111		20	35	70		
									2	122		21	36	71		
									3	133		22	37	72		
26			+2						1	111		23	38	67		
									2	122		24	39	68		
									3	133		25	40	69		
27			+4						1	111		26	41	63		
									2	122		27	42	66		
									3	133		28	43	65		
28			+10						1	111		29	44	57		
									2	122		30	45	58		
									3	133		31	46	59		
29			0	-15	-12.5			20	1	211		717	715	709	707	
					-12.5				2	222		718	716	710	708	
30					0				1	211		719	713	711	705	
					0				2	222		720	714	712	706	
a OR $\beta$ SCHEDULES																

TEST RUN NUMBERS

TABLE II (Continued)

SHEET 5 of 7

JEV

TEST: $\phi$ H84B (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 6/20/79					
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT					
		$\alpha$	$\beta$	$\delta_e$	$\delta_{RF}$	$\delta_{SB}$	M	CONF CODE	SW. POS.	Corr		0.5	1.0	2.0	3.0	3.7	
R4U* 31	60- $\phi$	40	0	-12.5	-12.5	0	8.0	20	1	211		725	739	737	727		
									2	222		726	740	738	728		
32					-5.0				1	211		723	741	735	729		
									2	222		724	742	736	730		
33					0.0				1	211		721	743	733	731		
									2	222		722	744	734	732		
34					-5	-12.5			1	211		633	659	647	649		
									2	222		634	660	648	650		
35					-5.0				1	211		635	657	645	655		
									2	222		636	658	646	656		
36					0				1	211		637	663	643	653		
									2	222		638	664	644	654		
37					5.0				1	211		639	661	641	651		
									2	222		640	662	642	652		
38					0	-12.5			1	211		631	605	603	581		
									2	222		632	606	604	582		
39					-5.0				1	211		621	615	593	579		
									2	222		622	616	594	580		

$\alpha$  OR  $\beta$   
SCHEDULES

TABLE II (Continued)

SHEET 6 of 7

JEV

TEST:  $\phi$ H84B (V41B-67)

## DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT							
		$\alpha$	$\beta$	$\delta_e$	$\delta_{RF}$	$\delta_{SR}$	M	CONK CODE	SW. POS.	CON. SET		0.5	1.0	2.0	3.0	3.7			
R4U*40	60- $\phi$	40	0	0	0	0	8.0	20	1	211		623	613	595	577				
									2	222		624	614	596	578				
41					5				1	211		625	611	597	583				
									2	222		626	612	598	584				
42					8				1	211		619	617	591	589				
									2	222		620	618	592	590				
43					15				1	211		627	609	599	585				
									2	222		628	610	600	586				
44					23.5				1	211		629	607	601	587				
									2	222		630	608	602	588				
45				5	-5				1	211		681	667	687	701				
									2	222		682	668	688	702				
46					0				1	211		679	665	689	699				
									2	222		680	666	690	700				
47					8				1	211		683	669	685	703				
									2	222		684	670	686	704				
48					15				1	211		675	673	691	697				
									2	222		676	674	692	698				

TEST RUN NUMBERS

 $\alpha$  OR  $\beta$   
SCHEDULES



**JEN**

[illegible]

TABLE II (Continued)

SHEET 1 of 2

JEV

TEST: $\phi$ H105 (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 6/20/79					
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT					
		$\alpha$	$\beta$	$\delta_c$	$\delta_{RF}$	$\delta_{SB}$	M	CONC. CODE	SW. POS.	CON. SET		0.5	1.0	2.0	3.0	3.7	
R4V*01	60- $\phi$	0	0	0	0	0	8.0	70	1	711			204		216	228	
									2	722			205		217	229	
									3	733			206		218	230	
									4	811			382		378	373	
02									4	811						377	
03		10							1	711			207		219	231	
									2	722			208		220	232	
									3	733			209		221	233	
									4	811			383		379	374	
04		15							1	711			210		222	237	
									2	722			211		223	238	
									3	733			212		224	239	
									4	811			384		380	375	
05		20							1	711			213		225	234	
									2	722			215		226	235	
									3	733			214		227	236	
									4	811			385		381	376	
$\alpha$ OR $\beta$																	
SCHEDULES																	

TEST RUN NUMBERS

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JEV

DATE: 6/20/79

LIST RUN NUMBERS

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TABLE II (Continued)

SHEET 1 of 7

JCV

TEST: IH102 (V41B-67)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6 / \text{FT}$						
		$\alpha$	$\beta$	$\delta_e$	$\delta_{AF}$	$\delta_{SB}$	M	CONK CODE	3rd Pos	4th Pos	0.5	1.0	2.0	3.0	3.5	4.0		
R4W*01	56- $\phi$	0	-15	0	0	0	3.0	31	1	311						414		
02		0	-15				4.0	31								413		
03	56- $\phi$ / 60-TS	-5	-11				3.0	30				389				394		
04		-5	-6													393		
05		-5	0									387				392		
06		0	-11									388				395		
07		0	-6													396		
08		0	-3													397		
09		0	0									386				391		
10		0	0									390						
11		5	0													398		
12		-5	-11				4.0					402			411			
13			-6													405		
14			0									400				404		
15		0	-11									401				409		
16			-6													408		
17			-3													407		
18			0									399				403		
19			0													410		
20		5	0													406		

LIST RUN NUMBERS

LIST RUN NUMBERS

$\alpha$  OR  $\beta$   
SCHEDULES

TABLE II (Continued)

SHEET 2 of 7

JEV

TEST: IH102 (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 6/20/79						
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT						
		$\alpha$	$\beta$	$\delta_e$	$\delta_{AF}$	$\delta_{SB}$	M	CONC CODE	SW. POS.	$\phi_{25}$		0.5	1.0	2.0	3.0	3.5	4.0	
R4W*21	60 - $\phi$	-40	0	0	0	0	3.0	51	1	511						546		
									2	522						547		
									3	533						548		
22		-15	0					50	1	511						528		
									2	522						529		
									3	533						530		
23		0	-15						1	511						525		
									2	522						526		
									3	533						527		
24			0						1	511			531			522		
									2	522			532			523		
									3	533			533			524		
25		-40	0				4.0	51	1	511				553		550		
									2	522				554		551		
									3	533				555		552		
26		-30	0						1	511						549		
27		-15	0					50	1	511						540		
									2	522						541		
									3	533						542		

$\alpha$  OR  $\beta$

SCHEDULES

TEST RUN NUMBERS

42

TABLE II (Continued)

SHEET 3 of 7

JEV

TEST: IH102 (V41B-67)

## DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS								REYNOLDS NUMBER $\times 10^6$ / FT							
		$\alpha$	$\beta$	$\delta_e$	$\delta_{RE}$	$\delta_{SB}$	M	CONF. CODE	SW. POS.	Cor. $\delta_{st}$	0.5	1.0	2.0	3.0	3.5	4.0	
R4W*28	60 - $\phi$	0	-15	0	0	0	4.0	50	1	511					537		
									2	522					538		
									3	533					539		
29			0						1	511		543			534		
									2	522		544			535		
									3	533		545			536		
30	60 - $\phi$ TS	-5	-11				3.0	60	1	511					489		
									2	522					490		
									3	533					491		
31			-6						1	511		500			482		
									2	522		501			483		
									3	533		502			484		
32			0						1	511		497			471		
									2	522		498			472		
									3	533		499			473		
33		0	-11						1	511					488		
									2	522					486		
									3	533					487		

TEST RUN NUMBERS

$\alpha$  OR  $\beta$   
SCHEDULES







JEV

DATE: 6/20/79

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS								REYNOLDS NUMBER $\times 10^6 / \text{FT}$						
		$\alpha$	$\beta$	$\delta_e$	$\delta_{RF}$	$\delta_{SR}$	M	CONK CODE	SW. POS.	CONK SET	0.5	1.0	2.0	3.0	3.5	4.0
R4W*50	60- $\phi$ TS	0	0	0	0	0	4.0	60	1	511		512			444	
									2	522		515			445	
									3	533		516			446	
		5	0						1	511					447	
									2	522					448	
									3	533					449	
52	83- $\phi$	-5	0				3.0	40	1	411		566			558	
									2	422		567			559	
53			6						1	411					562	
									2	422					563	
54		0	0						1	411		564			556	
									2	422		565			557	
55			6						1	411					560	
									2	422					561	
56		-5	0				4.0		1	411					570	
									2	422					571	
57			6						1	411					574	
									2	422					575	

TABLE II (Continued)

SHEET 7 of 7

JEV

TEST: IH102 (VA1B-67)

## DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

[illegible]

**$\alpha$  OR  $\beta$**   
**SCHEDULES**

## MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B<sub>62</sub>GENERAL DESCRIPTION : Configuration 140C orbiter fuselage, MCR 200-R4Similar to 140A/B fuselage except aft body revised and improved  
midbody-wing-boot fairing,  $X_o = 940$  to  $X_o = 1040$ .MODEL SCALE: 0.0175DRAWING NUMBER : VL70-000140C, -000202C, -000205A  
VL70-000200B, -000203

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (IML: FWD Sta $X_o=238$ ), In.	1290.3	22.58
Length (OML: Fwd Sta $X_o=235$ ), In.	1293.3	22.63
Max Width (At $X_o = 1528.3$ ), In.	264.0	4.62
Max Depth (At $X_o = 1464$ ), In.	250.0	4.38
Fineness Ratio	4.899	4.899
Area - Ft <sup>2</sup>		
Max. Cross-Sectional	340.885	0.104
Planform		
Wetted		
Base		

TABLE IIIA - (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C<sub>12</sub>GENERAL DESCRIPTION : Configuration 140C orbiter canopy. Vehicle  
cabin No. 31 updated to MCR 200-R4. Used with fuselage B<sub>62</sub>.MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -000202B, -000204

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ( $X_o = 434.643$ to $578$ ), In.	<u>143.357</u>	<u>2.508</u>
Max Width (At $X_o = 513.127$ ), In.	<u>152.412</u>	<u>2.667</u>
Max Depth ( $Z_o = 501$ to $449.39$ ), In.	<u>51.61</u>	<u>0.903</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>

TABLE IIIA (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT: ELEVON - E<sub>52</sub>GENERAL DESCRIPTION: Elevon for configuration 140C. Hingeline at X<sub>o</sub> = 1387,  
elevon split line X<sub>w</sub> = 312.5, 6.0", beveled edges, and centerbodies.MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -006089, -006092DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft <sup>2</sup>	<u>210.0</u>	<u>0.064</u>
Span (equivalent) - In.	<u>349.2</u>	<u>6.111</u>
Inb'd equivalent chord- In.	<u>118.0</u>	<u>2.065</u>
Outb'd equivalent chord	<u>55.19</u>	<u>0.966</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.0</u>	<u>0.0</u>
Tailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
(Product of area & c)		
Area Moment (normal to hinge line) Ft <sup>3</sup>	<u>1587.25</u>	<u>0.008</u>
Mean Aerodynamic Chodr, In.	<u>90.7</u>	<u>1.587</u>
Hingeline dihedral (origin at Z <sub>o</sub> = 261.3509), deg.	<u>5.229</u>	<u>5.229</u>

TABLE IIIA (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP - F<sub>10</sub>GENERAL DESCRIPTION : Configuration 140C body flap. Hingeline located  
at X<sub>o</sub> = 1532, Z<sub>o</sub> = 287.MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -355114

## DIMENSIONS :

## FULL SCALE

## MODEL SCALE

Length (X<sub>o</sub> = 1525.5 to X<sub>o</sub> = 1613), In. 87.501.531Max Width (At L. E., X<sub>o</sub> = 1525.5), In. 256.004.480Max Depth (X<sub>o</sub> = 1532), In.19.7980.346

Fineness Ratio

Area - Ft<sup>2</sup>Max. Cross-Sectional (At H. L.) 35.1960.011

Planform

135.000.041

Wetted

Base (X<sub>o</sub> = 1613)4.890.0015

## TABLE IIIA (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS POD - M<sub>16</sub>GENERAL DESCRIPTION : Configuration 140C orbiter OMS Pod - short pod.MODEL SCALE: 0.0175DRAWING NUMBER : VL70-008401, -008410

## DIMENSIONS :

## FULL SCALE

## MODEL SCALE

Length (OMS Fwd Sta $X_0 = 1310.5$ ), In.	258.50	4.524
Max Width (At $X_0 = 1511$ ), In.	136.8	2.394
Max Depth (At $X_0 = 1511$ ), In.	74.70	1.307
Fineness Ratio	2.484	2.484
Area = Ft <sup>2</sup>		
Max. Cross-Sectional	58.864	0.018
Planform		
Wetted		
Base		

TABLE IIIA (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT: VERTICAL - V<sub>30</sub>

GENERAL DESCRIPTION: Slab sided vertical tail with extended span

MODEL SCALE: 0.0175

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo) ÷ Ft <sup>2</sup> Planform	442.299	0.135
Span - In.	358.57	6.275
Aspect Ratio	2.019	2.019
Rate of Taper	0.507	0.507
Taper Ratio	0.323	0.323
Sweep-Back Angles, Degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) WP	268.50	4.699
Tip (Theo) WP	86.75	1.513
MAC	193.12	3.380
Fus. Sta. of .25 MAC	1474.87	25.301
W.P. of .25 MAC	648.71	11.352
B.L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle - Deg.	11.75	11.75
Trailing Wedge Angle - Deg	0.0	0.0
Leading Edge Radius	0.0	0.0
Void Area	0.0	0.0
Blanketed Area	0.0	0.0



TABLE IIIA (Concluded)  
MODEL DIMENSIONAL DATA

MODEL COMPONENT: WING-W<sub>127</sub>

GENERAL DESCRIPTION: Configuration 140C orbiter wing, MCR 200-R4. Similar to 140A/B wing W<sub>116</sub> but with refinements: improved wing-boot-midbody fairing (X<sub>0</sub> = 940 to X<sub>0</sub> = 1040). Elevon split line relocated from Y<sub>0</sub> = 281 to Y<sub>0</sub> = 312.5).

MODEL SCALE: 0.0175

TEST NO.

DWG. NO. VL70-000140C, -0002001

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft<sup>2</sup>

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATA

Area (Theo) Ft<sup>2</sup>

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip 1.00  $\frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)  
XXXX-64

Root  $\frac{b}{2}$  =

Tip  $\frac{b}{2}$  =

Data for (1) of (2) Sides

Leading Edge Cuff  
Planform Area Ft<sup>2</sup>

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

TABLE III-B MODEL 60-Ø ORBITER

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B<sub>62</sub>

GENERAL DESCRIPTION : Configuration 140C orbiter fuselage, MCR 200-R4

Similar to 140A/B fuselage except aft body revised and improved  
midbody-wing-boot fairing, X<sub>o</sub> = 940 to X<sub>o</sub> = 1040.

MODEL SCALE: 0.0175

DRAWING NUMBER : VL70-000140C, -000202C, -000205A  
VL70-000200B, -000203

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (IML: FWD Sta X <sub>o</sub> =238), In.	1290.3	22.58
Length (OML: Fwd Sta X <sub>o</sub> =235), In.	1293.3	22.63
Max Width (At X <sub>o</sub> = 1528.3), In.	264.0	4.62
Max Depth (At X <sub>o</sub> = 1464), In.	250.0	4.38
Fineness Ratio	4.899	4.899
Area - Ft <sup>2</sup>		
Max. Cross-Sectional	340.885	0.104
Planform		
Wetted		
Base		

TABLE III-B (Continued)  
MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C<sub>12</sub>  
GENERAL DESCRIPTION : Configuration 140C orbiter canopy. Vehicle  
cabin No. 31 updated to MCR 200-R4. Used with fuselage B<sub>62</sub>.  
MODEL SCALE: 0.0175  
DRAWING NUMBER : VL70-000140C, -000202B, -000204

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ( $X_o = 434.643$ to $578$ ), In.	<u>143.357</u>	<u>2.508</u>
Max Width (At $X_o = 513.127$ ), In.	<u>152.412</u>	<u>2.667</u>
Max Depth ( $Z_o = 501$ to $449.39$ ), In.	<u>51.61</u>	<u>0.903</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>

TABLE III-B (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT: ELEVON - E<sub>52</sub>GENERAL DESCRIPTION: Elevon for configuration 140C. Hingeline at  $X_o = 1387$ ,  
elevon split line  $X_w = 312.5$ , 6.0", beveled edges, and centerbodies.MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -006089, -006092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft <sup>2</sup>	<u>210.0</u>	<u>0.064</u>
Span (equivalent) - In.	<u>349.2</u>	<u>6.111</u>
Inb'd equivalent chord- In.	<u>118.0</u>	<u>2.065</u>
Outb'd equivalent chord	<u>55.19</u>	<u>0.966</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.0</u>	<u>0.0</u>
Tailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
(Product of area & $\bar{c}$ )		
Area Moment (Normal to hinge line) Ft <sup>3</sup>	<u>1587.25</u>	<u>0.008</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>1.587</u>
Hingeline dihedral (origin at $Z_o = 261.3509$ ), deg.	<u>5.229</u>	<u>5.229</u>

TABLE III-B (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP - F<sub>10</sub>

GENERAL DESCRIPTION : Configuration 140C body flap. Hingeline located  
at X<sub>o</sub> = 1532, Z<sub>o</sub> = 287.

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000140C, -355114

## DIMENSIONS:

## FULL SCALE

## MODEL SCALE

Length (X <sub>o</sub> = 1525.5 to X <sub>o</sub> = 1613), In.	87.50	1.531
Max Width (At L. E., X <sub>o</sub> = 1525.5), In.	256.00	4.480
Max Depth (X <sub>o</sub> = 1532), In.	19.798	0.346
Fineness Ratio		
Area - Ft <sup>2</sup>		
Max. Cross-Sectional (At H. L.)	35.196	0.011
Planform	135.00	0.041
Wetted		
Base (X <sub>o</sub> = 1613)	4.89	0.0015

TABLE III-B (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS POD - M<sub>16</sub>GENERAL DESCRIPTION : Configuration 140C orbiter OMS Pod - short pod.MODEL SCALE: 0.0175DRAWING NUMBER : VL70-008401, -008410

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (O/S Fwd Sta $X_o = 1310.5$ ), In.	258.50	4.524
Max Width (At $X_o = 1511$ ), In.	136.8	2.394
Max Depth (At $X_o = 1511$ ), In.	74.70	1.307
Fineness Ratio	2.484	2.484
Area = Ft <sup>2</sup>		
Max. Cross-Sectional	58.864	0.018
Planform		
Wetted		
Base		

TABLE III-B (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT: RUDDER - R<sub>18</sub>

GENERAL DESCRIPTION: The rudder is a secondary movable airfoil at the trailing edge of the vertical fin that imparts yaw forces. This dimensional data was calculated from the OML master dimensions.

MODEL SCALE: 0.0175DRAWING NUMBER: Vehicle 5 Configuration MCR 200, Rev. 7

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft <sup>2</sup>	<u>97.84</u>	<u>0.030</u>
Span (equivalent) - In.	<u>198.614</u>	<u>3.476</u>
Inb'd equivalent chord - In.	<u>91.07</u>	<u>1.699</u>
Outb'd equivalent chord - In.	<u>50.80</u>	<u>0.889</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.833</u>	<u>34.833</u>
Tailing Edge	<u>26.249</u>	<u>26.249</u>
Hingeline	<u>34.833</u>	<u>34.833</u>
(Product of Area & $\bar{c}$ ),		
Area Moment (Normal to hingeline) Ft <sup>3</sup>	<u>593.889</u>	<u>0.032</u>
Mean Aerodynamic Chord, In.	<u>72.840</u>	<u>1.275</u>

TABLE III-B (Continued)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT: VERTICAL - V<sub>8</sub>GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail (identical to configuration 140A/B vertical tail).MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -000146B

## DIMENSIONS:

FULL SCALE      MODEL SCALE

## TOTAL DATA

Area (Theo) - Ft <sup>2</sup>		
Planform	413.253	0.127
Span (Theo) - In.	315.72	5.350
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep-Back Angles, Degrees.		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) %P	268.50	4.699
Tip (Theo) %P	108.47	1.898
MAC	199.81	3.497
Fus. Sta. of .25 MAC	1463.35	25.609
W.P. of .25 MAC	635.52	11.122
B.L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle - Deg.	10.00	10.00
Trailing Wedge Angle - Deg.	14.92	14.92
Leading Edge Radius	2.00	2.00
Void Area	13.17	0.0040
Blanketed Area	0.0	0.0



TABLE III-B (Concluded)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT: WING-W<sub>116</sub>GENERAL DESCRIPTION: Configuration 5NOTE: Identical to W<sub>114</sub> except airfoil thickness. Dihedral angle is along trailing edge of wing. Geometric twist = 0.

MODEL SCALE: 0.0175

TEST NO.

DWG. NO. VL70-000140A, -000200

DIMENSIONS:

FULL-SCALE

MODEL SCALE

## TOTAL DATA

Area (Theo.)  $\text{Ft}^2$ 

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

## EXPOSED DATA

Area (Theo)  $\text{Ft}^2$ 

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip 1.00  $\frac{b}{2}$ 

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)  
XXXX-64Root  $\frac{b}{2}$  =Tip  $\frac{b}{2}$  =

Data for (1) of (2) Sides

Leading Edge Cuff  $\text{Ft}^2$ Planform Area  $\text{Ft}^2$ 

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

TABLE III-C MODEL 60-0 TANK AND SRB'S.

MODEL DIMENSIONAL DATA

MODEL COMPONENT : EXTERNAL TANK - T<sub>38</sub>

GENERAL DESCRIPTION : Spike nose configuration.

MODEL SCALE: 0.0175

DRAWING NUMBER : VC78-000002E (ET DRAWING)  
VC72-000002F (SHUTTLE CONFIG. DRAWING)

(Dimensions are to tank structural OML, TPS not included).

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	<u>1850.525</u>	<u>32.384</u>
Max Width	<u>331.00</u>	<u>5.792</u>
Max Depth	<u></u>	<u></u>
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area - Ft <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional	<u>594.678</u>	<u>0.1821</u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>

TABLE III-C (Concluded)  
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S<sub>26</sub>

GENERAL DESCRIPTION : The BSRM is an external propulsion system which is jettisoned and recoverable after burnout. The BSRM's can be refurbished and reused after recovery.

MODEL SCALE: 0.0175

DRAWING NUMBER : SRB DRAWING - VC77-000002G, VC77-000003F  
SHUTTLE CONFIG. - VC72-000002F

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	<u>1789.60</u>	<u>31.318</u>
Max Width tank dia., In.	<u>146.00</u>	<u>2.555</u>
Max Depth, aft shroud dia.; In.	<u>208.20</u>	<u>3.643</u>
Fineness Ratio	<u>8.596</u>	<u>8.596</u>
Area	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>
W.P. of BSRM centerline	<u>400.0</u>	
F.S. of BSRM nose	<u>743.0</u>	
B.P. of BSRM centerline	<u>250.5</u>	

## TABLE III-D MODEL 83-0 ORBITER

## MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B<sub>60</sub>GENERAL DESCRIPTION : 50% orbiter forebody, vehicle 140C.NOTE: This body includes a small portion of the wing glove.MODEL SCALE: 0.040DRAWING NUMBER: VL70-000140C

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	<u>645.15</u>	<u>25.80</u>
Max Width	<u>330.00</u>	<u>13.20</u>
Max Depth	<u>          </u>	<u>          </u>
Fineness Ratio	<u>          </u>	<u>          </u>
Area	<u>          </u>	<u>          </u>
Max. Cross-Sectional	<u>          </u>	<u>          </u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

TABLE III-D (Concluded)

## MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C<sub>10</sub>

GENERAL DESCRIPTION : Configuration 4 canopy and windshield as used  
with B<sub>25</sub>, six glass panes in windshield.

MODEL SCALE: 0.040

DRAWING NUMBER: VL70-000140B, 140C, 202B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ( $X_0 = 434.643$ to $670$ ), In.	<u>235.357</u>	<u>9.414</u>
Max Width	<u></u>	<u></u>
Max Depth (Glass, In.	<u>28.00</u>	<u>1.12</u>
Fineness Ratio	<u></u>	<u></u>
Area	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Bose	<u></u>	<u></u>
Nose/windshield intersection, $X_0 =$	<u>434.643</u>	<u>17.386</u>

TABLE IV. CONFIGURATION CODES

<u>NASA TEST CODE</u>	<u>MODEL CONFIGURATION CODE</u>	<u>MODEL CONFIGURATION</u>	<u>TUNNEL</u>	<u>THERMOCOUPLE CONSTANT SETS</u>
	(See Figure 6)			
OH-84B	10	60-Ø BASE STING	B	111, 122, 133
OH-84B	20	60-Ø OFFSET STING	B	211, 222
IH-102	30	56-ØTS	A	311
IH-102	31	56-Ø	A	311
IH-102	40	83-Ø	A	411, 422
IH-102	50	60-Ø	A	511, 522, 533
IH-102	51	60-Ø	A	511, 522, 533
IH-102	60	60-ØTS	A	511, 522, 533
OH-105	70	60-Ø	B	711, 722, 733, 811
OH-105	80	83-Ø	B	911, 922

TABLE V. 60-0 MODEL THERMOCOUPLE LOCATIONS

T/C No.	x/L	Full Scale			Model Scale			$\phi$	Skin Thickness	Mat'l	Remarks
		$X_0$	$Y_0$	$Z_0$	$X_{\text{from nose}}$	Y	$Z_{\text{from FRL}}$				
1	0	235.0	0	-	0	0	-	0	.040	17-4	Bottom $\phi$
2	.005	241.47			.113				.032		
3	.01	247.93			.226				.033		
4	.02	260.87			.453				.040		
5	.03	273.80			.679				.040		
6	.04	286.73			.905				.040		
7	.05	299.67			1.132				.033		
8	.06	312.60			1.358				.035		
9	.07	325.53			1.584				.032		
10	.08	338.46			1.811				.032		
11	.09	351.40			2.037				.035		
12	.10	364.32			2.263				.037		
13	.12	390.20			2.716				.040		
14	.13	403.13			2.942				.038		
15	.14	416.06			3.169				.035		
16	.15	429.00			3.395				.036		
17	.16	441.93			3.621				.036		
18	.17	454.86			3.848				.035		
19	.18	467.79			4.074				.035		
20	.19	480.73			4.300				.035		
21	.20	493.66			4.527				.035		
22 C	.225	525.99			5.092				.035		
23	.25	558.32			5.658				.035		
24	.30	622.99			6.790				.035		
25	.35	687.66			7.922				.035		
26	.40	752.32			9.053				.034		
27 C	.45	816.99			10.185				.033		
28 C	.50	881.65			11.316				.032		
29 C	.55	946.32			12.448				.030		
30 C	.60	1010.9			13.580				.030		
31 C	.65	1075.6			14.711				.030		
32 C	.70	1140.3			15.843				.029		
33 C	.75	1204.9			16.975				.030		
34 C	.80	1269.6			18.106				.030		

TABLE V. Continued

T/C No.	X/L	Full Scale			Model Scale			$\phi$	Skin Thickness	Mat'l	Remarks
		X <sub>0</sub>	Y <sub>0</sub>	Z <sub>0</sub>	X <sub>from nose</sub>	Y	Z <sub>from FRL</sub>				
35C	.85	1324.3	0	-	19.063	0	✓	0	.029	17-4	Bottom $\angle$
36C	.90	1398.9			20.369				.031		
37C	.925	1431.3			20.935				.027		
38C	.950	1463.6			21.501				.027		
39C	.975	1495.9			22.067				.023		
40	1.015	1547.7			22.972				.030		
41	1.03	1567.1			23.312				.030		
42	1.045	1586.3			23.651				.028		
43	1.06	1605.0			23.977				.0265		
44	.05	299.67	25.0		1.132	.438		14	.032		Fuselage Bottom
45	.10	364.33	20.0		2.263	.350		10	.036		Surface
46	.15	429.0	24.0		3.395	.420		10	.035		
48	.20	493.66	50.0		4.527	.875		24	.025		
50C	.50	881.65	46.8		11.316	.819		-	.028		
51C	.60	1010.9			13.580				.025		
52C	.70	1140.3			15.843				.030		
53C	.80	1269.6			18.106				.030		
54C	.90	1398.6			20.369				.028		
55C	.95	1463.6			21.501				.025		
56C	.975	1495.9			22.067				.028		
57	1.015	1547.7			22.972				.030		
58	1.03	1567.1			23.312				.030		
59	1.045	1586.3			23.651				.030		
60	1.060	1605.0			23.977				.031		
61C	.40	752.32	93.60		9.053	1.638			.032		
62C	.50	881.65			11.316				.031		
63C	.60	1010.9			13.580				.033		
64C	.70	1140.3			15.843				.029		
65C	.80	1269.6			18.106				.031		
66C	.90	1398.6			20.369				.030		
67C	.95	1463.6			21.501				.029		
68C	.975	1495.9			22.067				.028		



TABLE V. Continued

T/C No.	X/L	Full Scale			Model Scale			$\phi$	Skin Thickness	Mat'l	Remarks
		X <sub>0</sub>	Y <sub>0</sub>	Z <sub>0</sub>	X <sub>from nose</sub>	Y	Z <sub>from FRL</sub>				
69	1.015	1547.7	93.6	-	22.972	1.638	-	-	.0275	17-4	Fus. Bottom Sur.
70	1.03	1567.1			23.312				.0285		
71	1.045	1586.5			23.651				.029		
72	1.06	1605.0			23.977				.027		
169	.01	247.93	0		.226	0		180	.033		Top $\angle$
170	.025	267.33			.565				.031		
171	.050	299.67			1.129				.035		
172	.075	332.0			1.694				.035		
173	.100	364.33			2.258				.034		
174	.125	396.66			2.283				.032		
175	.150	429.0			3.387				.032		
176	.160	441.93			3.613				.040		
177	.170	459.86			3.839				.040		
178	.180	467.79			4.064				.033		
179	.200	493.66			4.516				.036		
180	.25	556.3			5.058						
181	.3	622.09			5.70						
182	.40	752.32			9.053				.026		
183	.45	816.99			10.185				.026		
184	.50	881.65			11.316				.025		
185	.55	946.32			12.448				.026		
186	.60	1010.9			13.580				.025		
187	.65	1075.6			14.711				.024		
188	.70	1140.3			15.843				.025		
189	.75	1204.9			16.975				.0255		
190	.80	1269.6			18.106				.023		
191	-	-	6.00	452.0	-	.105	.910	-	.031		Window #1 Bott.
192			12.80	478.0		.224	1.365		.031		Right Top Right
193			21.20	464.9		.371	1.136		.030		Center
194			29.60	478.0		.518	1.365		.028		Top Left
195			34.30	452.0		.602	.910		.030		Bottom Right
196			40.40	452.0		.707	.910		.030		Window #2 Bottom Right
197			34.80	478.0		.609	1.365		.030		Top Right
198			44.80	464.9		.784	1.136		.030		Center

TABLE V. Continued

T/C No.	X/L	Full Scale		Model Scale				$\phi$	Skin Thickness	Mat'l	Remarks
		X <sub>0</sub>	Y <sub>0</sub>	Z <sub>0</sub>	X from nose	Y	Z from FRL				
199	-	-	43.20	478.0	-	.756	1.365	-	.030	17-4	Window #2 Top LT
200			59.20	452.0		1.036	.910		.029		Bottom Left
201			52.40	464.9		1.092	1.136		.029		Window #3 Center
202	.05	299.6	-	303.6	1.132	-	-1.687	22	.040		Fus. Side CCL
203				325.6			-1.302	35	.035		MHB
204				342.4			-1.008	42.5	.033		UT
205				378.4			-0.378	60	.033		45T
206	.076	332.2		350.0	1.720		-0.875	-	.035		RCS
207	.10	364.3	39.20	-	2.263	.686	-	20	.038		
208			52.00			.910	-	24.5	.035		CCL
209			-	317.6		-	-1.442	39	.035		MHB
210				410.0			0.175	119	.037		
211	.15	429.0	40.80	-	3.395	.714	-	20	.035		
212			62.00	-		1.085	-	25.5	.025		CCL
213			79.20	304.8		1.386	-1.666	40	.030		CCL
214			83.60	314.4		1.463	-1.498	45.5	.038		MHB
215	.20	493.6	65.80	287.2	4.527	1.148	-1.974	31.5	.022		CCL
216			75.60	292.0		1.323	-1.890	35	.022		CCL
217			85.20	298.8		1.491	-1.771	40	.020		CCL
218			-	320.0		-	-1.400	51	.035		MHB
219			-	360.0			-0.700	67.5	.030		UT
220			-	410.0			0.175	96.5	.031		Upper Fuselage
223	.40	752.32	-	-	9.053	-	-	157.5	.034		Upper Fuselage
224	.45	816.99			10.185				.034		
225	.50	881.66			11.316				.034		
226	.55	946.32			12.448				.035		
227	.60	1010.9			13.580				.034		
228	.65	1075.6			14.711				.0325		
229	.70	1140.3			15.843				.030		
230	.75	1204.9			16.975				.030		
231	.80	1269.6			18.106				.032		

TABLE V. Continued

T/C No.	X/L	Full Scale			Model Scale			Ø	Skin Thickness	Mat'l	Remarks
		X <sub>0</sub>	Y <sub>0</sub>	Z <sub>0</sub>	X <sub>from nose</sub>	Y	Z <sub>from FRL</sub>				
233	.40	752.32	-	-	9.053	-	-	135	.030	17-4	Upper Fuselage
234	.40	752.32	-	-	9.053	-	-	135	.030		
235	.45	816.99			10.185				.030		
236	.50	881.65			11.315				.036		
237	.55	946.32			12.448				.035		
238	.60	1010.9			13.580				.031		
239	.65	1075.6			14.711				.032		
240	.70	1140.3			15.843				.030		
241	.75	1204.9			16.975				.032		
242	.80	1269.6	↓	↓	18.105		↓	↓	.032		↓
288 C	.975	1496.0	-	381.2	22.068	-	-0.329	-	0.030		Aft Fuselage Side
388	.40	752.32	-	445.0	9.053		0.788	114	.031		Upper Fuselage Side
389	.45	816.99			10.185				.033		
390	.50	881.65			11.315				.036		
391	.55	946.32			12.448				.0345		
392	.60	1010.9			13.580				.0335		
393	.65	1075.6			14.711				.0345		
394	.70	1140.3			15.843				.034		
395	.75	1204.9			16.975				.036		
396	.80	1269.6	↓	↓	18.105	↓		↓	.034	↓	↓

TABLE V. Continued

## Wing T/C Locations

T/C No.	$\frac{2Y}{B}$	Full Scale			Model Scale			Elevon T/C	Skin Thickness	Mat'l	Remarks
		X/C	X <sub>o</sub>	Y	X <sub>from L.E.</sub>	Y					
73C	.30	0		140.5	0	2.459			.020	17-4	Wing Lower Sur.
74C		.05			.670				.020		
75C		.10			1.340				.026		
76C		.20			2.680				.031		
77C		.30			4.020				.030		
78C		.40			5.360				.031		
79C		.50			6.700				.030		
80C		.60			8.040				.030		
81C		.70			9.380				.031		
82C		.80			10.720				.030		
83		.90			12.060			X	.0305		
84	Y	.95		Y	12.730	Y		X	.031		
86C	.40	0		187.3	0	3.277			.022		
87C		.05			.438				.031		
88C		.10			.876				.031		
89C		.20			1.753				.030		
90C		.30			2.629				.031		
91C		.40			3.506				.029		
92C		.60			5.259				.033		
93C		.70			6.135				.033		
94C		.75			6.573				.030		
95		.85			7.449				.0295		
96		.90			7.888			X	.026		
97	Y	.95		Y	8.326	Y		X	.0275		
98C	.45	0		210.73	0	3.687		X	.030		
99C	.50	0		234.1	0	4.098			.027		
100C		.05			.364				.029		
101C		.10			.727				.030		
102C		.20			1.454				.031		
103C		.30			2.181				.031		
104C		.40			2.908				.031		
105C		.60			4.362				.032		
106C	V	.70		Y	5.089	Y			.031	V	V

TABLE V. Continued

## Wing T/C Locations

T/C No.	$\frac{2Y}{B}$	Full Scale			Model Scale			Elevo. T/C	Skin Thickness	Hat'l	Remarks
		X/C	X <sub>0</sub>	Y <sub>0</sub>	X from L.E.	Y					
107	.50	.90		234.1	6.543	4.098		X	.0285	17-4	Wing Lower Sur.
108C	.55	0		257.6	0	4.508			.026		
109C	.60	0		281.0	0	4.918			.024		
110C		.025			.157				.029		
111C		.05			.314				.028		
112C		.075			.470				.030		
113C		.10			.627				.031		
114C		.20			1.254				.031		
115C		.30			1.862				.033		
116C		.40			2.509				.032		
117C		.50			3.136				.032		
118C		.60			3.763				.032		
119C		.70			4.390				.031		
120		.80			5.018			X	.030		
121		.85			5.331			X	.0305		
122		.90			5.645			X	.0295		
123	↓	.95		↓	5.958	↓		X	.0295		
124C	.65	0		309.4	0	5.327			.026		
125C	.70	0		327.8	0	5.737			.017		
126C		.025			.133				.024		
127C		.10			.531				.032		
128C		.20			1.061				.036		
129C		.30			1.592				.036		
130C		.40			2.123				.035		
131		.60			3.184				.035		
132	↓	.90		↓	4.776	↓		X	.031		
133	.75	0		352.8	0	6.174			.028		
134		.025			.121				.028		
135		.05			.241				.030		
136		.10			.483				.032		
137		.20			.965				.032		
138		.30			1.448				.035		
139		.40			1.930				.034		
140	↓	.60		↓	2.895	↓			.033	↓	

TABLE V. Continued

Wing T/C Locations

T/C No.	$\frac{2Y}{B}$	Full Scale			Model Scale			Elevon T/C	Skin Thickness	Mat'l	Remarks
		X/C	X <sub>0</sub>	Y <sub>0</sub>	X <sub>from L.E</sub>	Y					
141C	.75	.70		352.8	3.278	6.174			.031	17-4	Wing Lower Surf.
142		.80			3.860			X	.027		
143		.90			4.343			X	.0305		
144	Y	.95		Y	4.584	Y		X	.0295		
145	.80	0		374.6	0	6.557			.024		
146		.20			.868				.032		
147		.40			1.737				.031		
148	Y	.90		Y	3.908	Y		X	.0305		
149	.85	0		398.1	0	6.967			.028		
150		.20			.772				.031		
151	Y	.40		Y	1.544	Y			.030		
152	.90	0		421.4	0	7.376			.028		
153		.10			.338				.030		
154		.20			.675				.031		
155C		.30			1.013				.031		
156		.50			1.689				.031		
157C		.60			2.026				.032		
158		.80			2.702			X	.0285		
159	Y	.90		Y	3.039	Y		X	.028		
160	.95	0		444.9	0	7.786			.030		
161		.05			.138				.031		
162		.10			.276				.030		
163		.20			.552				.032		
164		.30			.827				.031		
165		.50			1.379				.030		
166		.70			1.931			X	.0295		
167		.80			2.206			X	.030		
168	Y	.90		Y	2.482	Y		X	.0295		
246	.400	.05		187.3	.438	3.278			.024		Wing Upper Surface
247		.20			1.753				.028		
248	Y	.40		Y	3.506	Y			.024		

TABLE V. Continued

## WING T/C LOCATIONS

T/C No.	2Y/B	X/C	Full Scale		Model Scale		Elevon T/C	Skin Thickness	Mat'l	Remarks
			Xo	Yo	X From LE	Y				
249	.40	.60		187.3	5.258	3.278		.020	17-4	Wing Upper Surf.
250		.75			6.573			.030		
251		.80			7.011		x	.029		
252	↓	.95		↓	8.326	↓	x	.025		
253	.60	.025		281.0	.157	4.918		.009		
254		.05			.314			.011		
255		.10			.627			.021		
256		.20			1.254			.025		
257		.40			2.509			.027		
258		.60			3.763			.024		
259		.75			4.703			.025		
260		.85			5.331		x	.027		
261	↓	.95		↓	5.958	↓	x	.020		
262	.70	.20		327.83	1.061	5.737		.024		
263		.40			2.123			.025		
264	↓	.90		↓	4.776	↓	x	.028		
265	.75	.10		352.25	.483	6.147		.023		
266		.20			.965			.023		
267		.40			1.930			.025		
268		.60			2.895			.022		
269		.80			3.860		x	.024		
270	↓	.90		↓	4.430	↓	x	.028		
271	.80	.90		374.65	3.908	6.557	x	.029		
272	.90	.20		421.95	.675	7.376		.025		
273		.40			1.351			.025		
274	↓	.60		↓	2.026	↓		.030		
275	.95	.20		444.91	.552	7.786		.023		
276		.40			1.103			.030		
277		.50			1.379			.025		
278		.70			1.930		x	.028		
279		.80			2.206		x	.029		
280	↓	.90		↓	2.421	↓	x	.028	↓	↓

TABLE V. Continued

C-45 Pod I/C Locations

T/C No.	X/L	Full Scale			Model Scale			Skin Thickness	Mat'l	Remarks
		X <sub>o</sub>	Y <sub>o</sub>	Z <sub>o</sub>	X <sub>from Pod LE</sub>		Z <sub>from FRL</sub>			
293		1311	106.9	428.6					17-4	
294										
295										
296										
297										
298		1325	106.9	428.6				.030		
299			98.77	489.2				.033		
300			67.73	511.3				.030		
301			48.78	506.7				.028		
302		1350	123.6	440.4				.024		
303			132.0	458.6				.030		
304			108.9	498.5				.032		
305			69.5	524.4				.029		
306			47.3	515.5				.031		
307										
308		1375	111.6	421.6				.016		
309			130.0	440.0				.023		
310			139.6	460.0				.035		
311			113.8	503.4				.028		
312			72.4	531.0				.031		
313		1400	48.28	523.4				.027		
314										
315		1425	115.0	415.1				.031		
316			133.7	437.7				.030		
317			147.7	466.3				.038		
318			119.7	508.6				.027		
319			77.34	536.5				.030		
320		1450	117.48	418.20				.023		
321			134.5	436.0				.029		
322			149.8	468.2				.033		
323			122.2	511.1				.025		
324										
325			48.3	526.6				.027		
326										



### OWS Pod T/C Locations

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TABLE V. Continued

## VERTICAL TAIL T/C LOCATIONS

T/C No.	Z/BV	X/C	Full Scale		Model Scale		Rudder T/C	Skin Thickness	Mat'l	Remarks
			Xo	Zo	X from L.E.	Z from FRL				
340	.10	.10						.0315	17-4	External Surface
341		.30						.0305		
342	✓	.50						.0295		
343	.20	.10						.031		
344		.20						.0302		
345		.40						.0313		
346		.60						.031		
347	✓	.80						.0315		
348	.30	.05						.0297		
349		.20						.031		
350		.40						.031		
351		.50						.0318		
352	✓	.90					x	.030		
353	.40	.10						.0305		
354		.20						.0315		
355		.40						.0315		
356		.50						.0308		
357		.70					x	.029		
358	✓	.90					x	.0298		
359	.50	.05						.0285		
360		.70					x	.028		
361	✓	.90					x	.0315		
362	.60	.05						.029		
363		.10						.0295		
364		.20						.0303		
365		.40						.0318		
366		.50						.0315		
367		.70					x	.028		
368	✓	.90					x	.030		
369	.70	.05						.0275		
370		.70					x	.0275		
371	✓	.90					x	.029		
372	.80	.05						.029		
373	✓	.10						.0293	✓	✓

TABLE V. Continued

## VERTICAL TAIL T/C LOCATIONS

T/C No.	Z/BV	Full Scale			Model Scale			Rudder T/C	Skin Thickness	Mat'l	Remarks
		X/C	X <sub>0</sub>	Z <sub>0</sub>	X from L.E.	Z from FRL					
374	.80	.40							.031	17-4	External Surface
375		.50							.0325		
376		.70						X	.028		
377	Y	.90						X	.029		
378	.90	.10							.031		
379		.30							.0305		
380		.50							.032		
381		.70							.0308		
382	↓	.90							.0298		
383	.95	.30							.0313		
384		.50							.0315		
385	↓	.90							.033	↓	↓
397C									.0318	17-4	Speed Brake Cavity
398C									.0312	↓	↓
399C									.0312		
400C									.0312	↓	↓

Table V. (Continued)

BASE HEATSHIELD THERMOCOUPLE LOCATIONS

T/C NO.	FULL SCALE		MODEL SCALE		MAT'L	SKIN THICK- NESS	REMARKS
	Y <sub>0</sub>	Z <sub>0</sub>	Y	Z FROM			
428	0	430	0	0.525	15-5	.032	
429	-70	430	-1.225	0.525		.031	
430	0	320	0	-1.400		.0315	
431	-110	320	-1.925	-1.400		.0305	

Table V. (CONTINUED)

Lower Left SSME Nozzle T/C Locations  
(Note Material)

T/C NO.	X FROM EXIT PLANE F.S.	X FROM EXIT PLANE M. S.	$\phi_n$ deg	MAT'L	SKIN THICKNESS, in.	REMARKS
408	5.0	0.088	315	15-5	.030	Smooth Nozzle
409	↓	↓	0	↓	.031	
411	↓	↓	45	↓	.0315	
412	↓	↓	65	↓	.032	
413	↓	↓	90	↓	.032	
414	↓	↓	135	↓	.0325	
415	10.0	0.175	0	↓	.0305	
418	↓	↓	65	↓	.0315	
419	↓	↓	90	↓	.032	
420	15.0	0.263	0	↓	.029	
421	↓	↓	45	↓	.0295	
422	↓	↓	90	↓	.030	
423	25.0	0.438	0	↓	.0255	
424	↓	↓	45	↓	.026	
425	↓	↓	65	↓	.026	
426	↓	↓	90	↓	.026	
427	45.0	0.788	45	15.5	.027	

(428 thru 431 on heat shield)

Table V. (CONTINUED)

Lower Right SSME Nozzle T/C Locations  
(Note Material)

432	5.0	0.088	315	17-4	.0289	Nozzle W/Hat Bands
433	↓	↓	0	↓	.0298	
434	↓	↓	25	↓	.0285	
435	↓	↓	45	↓	.0297	
436	↓	↓	65	↓	.0298	
437	↓	↓	90	↓	.0292	
438	↓	↓	135	↓	.0307	
439	10.0	0.175	0	↓	.0299	
440	↓	↓	25	↓	.0285	
441	↓	↓	45	↓	.0292	
442	↓	↓	65	↓	.0296	
443	↓	↓	90	↓	.0288	
444	15.42	0.270	0	↓	.0274	
445	↓	↓	25	↓	.0290	
446	↓	↓	45	↓	.0280	
447	↓	↓	65	↓	.0278	
448	↓	↓	90	↓	.0282	
449	25.0	0.438	0	↓	.0288	
450	↓	↓	25	↓	.0291	
451	↓	↓	45	↓	.0286	
452	↓	↓	65	↓	.0295	
453	↓	↓	90	↓	.0291	

TABLE V. Continued

Upper Wing T/C Locations

T/C No.	2Y B	FULL SCALE		MODEL SCALE		SKIN THICKNESS IN.	MAT'L	REMARKS
		X <sub>o</sub>	Y <sub>o</sub>	X <sub>o</sub>	Y <sub>o</sub>			
460	.500	1373.54	234.17	24.036	4.097	.0280	17-4	Wing Upper Surf.
461	.550		257.587		4.507	.0305		
462	.600		281.004		4.917	.0290		
463	.650		304.421		5.327	.0290		
464	.700		327.838		5.737	.0300		
465	.725		339.546		5.942	.0290		
466	.750		351.255		6.146	.0270		
467	.775		362.963		6.351	.0240		
468	.800		374.672		6.556	.0240		
469	.825		386.380		6.761	.0240		
470	.850		398.089		6.966	.0250		
471	.875		409.797		7.171	.0260		
472	.925		433.214		7.581	.0270		
277	.950		444.923		7.786	.0250		
473	.975		456.631		7.991	.0200		

\* SPAN = 936.68 in full scale

→ T/C 274 REF. 2Y/B = .900

T/C No.	2Y B	FULL SCALE		MODEL SCALE		Elevon	SKIN THICK.	MAT'L	REMARKS
		X/C	Y <sub>o</sub>	X <sub>FRGM</sub> LE	Y <sub>o</sub>	T/C			
476	.700	.60	327.83	3.125	5.737		.0300	17-4	Wing Upper Surf.
477	.750	.50	351.25	2.411	6.147		.0280		
478	.800	.10	374.69	.435	6.557		.0310		
479		.30		1.305			.0320		
480		.40		1.740			.0320		
481		.50		2.171			.0320		
482		-		24.33		X	.0250		
483	.825	-	386.00	24.33	6.756	X	.0280		
484		.85		3.485		X	.0250		
485		.90		3.690		X	.0290		
486	.850	.10	397.94	.386	6.964		.0320		
487		.30		1.155			.0300		
488		.40		1.544			.0300		
489		.50		2.000			.0300		
490		-		24.33		X	.0290		
491	.900	.90	421.50	3.033	7.376	X	.0290		

TABLE V. Continued

## ADDITIONAL T/C LOCATIONS

T/C NO.	MODEL SCALE			SKIN THICKNESS	MATERIAL	LOCATION
	X <sub>0</sub>	Y <sub>0</sub>	Z <sub>0</sub>			
37A	4.553	0.252	-	.032	17-4	Lower Nose (LH)
38A	4.541	0.428	5.524	.033		
39A	4.515	-	5.696	.036		
41A	5.626	-	6.002	.031		
45A	6.361	1.041	5.266	.028		
46A	-	-	5.470	.030		
47A	-	1.230	5.673	.031		
65A	8.610	0.388	4.893	.030		
70A	8.610	1.681	5.388	.030		
107A	13.170	0.780	4.809	.024		Lower Mid Fuselage (LH)
114A	13.207	1.782	4.977	.031		
115A	13.107	1.962	-	.024		
116A	-	2.142	-	.020		
117A	-	2.322	-	.017		
118A	-	2.448	-	.025		
130A	15.356	1.837	4.882	.023		
131A	-	2.046	-	.029		
132A	-	2.250	-	.028		
133A	-	2.453	-	.026		
134A	-	2.663	-	.023		
135A	-	2.816	5.226	.027		
186A	24.329	1.819	4.681	.030		Lower Aft Fuselage
187A	24.925	1.883	-	.031		
188A	25.476	1.911	-	.028		
189A	25.923	1.981	-	.025		
196A	24.015	2.128	-	.028		
197A	24.480	2.459	-	.032		
320A	24.576	-	5.565	.0295		Aft Fuselage & Elevon Split Line (LH)
321A	24.913	-	-	.0265		
322A	25.476	-	-	.027		
323A	26.038	-	-	.029		
336A	24.576	-	4.902	.030		
337A	24.913	-	-	.031		
338A	25.575	-	-	.028		
339A	26.138	-	-	.026		
341A	24.576	-	4.692	.030		
342A	24.913	-	4.692	.032		
343A	25.475	-	4.722	.031		
344A	26.038	-	4.759	.031		
249A	10.859	1.988	-	.030*		Upper Wing (RE)
250A	11.983	-	-	.028		
251A	13.107	-	-	.030		
252A	14.195	-	-	.022		
253A	17.545	1.970	-	.026		
254A	19.941	2.049	-	.018		
255A	22.330	2.047	-	.029		
256A	14.195	2.459	-	.020		

TABLE V. Concluded

## ADDITIONAL T/C LOCATIONS

T/C NO.	MODEL SCALE			SKIN THICKNESS	MATERIAL	LOCATION
	X <sub>0</sub>	Y <sub>0</sub>	Z <sub>0</sub>			
257A	15.535	2.459	4.759	.027	17-4	Upper Wing (RH)
258A	16.875		-	.020		
259A	18.215		-	.016		
260A	19.555		-	.028		
261A	20.895		-	.025		
262A	22.235		-	.030		
263A	23.576		-	.029		
279A	24.080	5.138	-	.030*		
113A	27.268	0.928	-	.030		Lower Body Flap
191A	27.268	1.819	-	.028		
314A	27.274	0	5.122	.0255		Upper Body Flap
315A	28.017	0	-	.019		
316A	27.275	0.875	5.224	.0295		
317A	28.017	0.875	-	.028		
318A	27.275	1.837	5.122	.0295		
319A	28.017	1.697	-	.0295		
192A	26.994	-	5.064	.031		Body Flap, Edge
193A	27.265	-	5.092	.0305		
194A	27.639	-	5.106	.031		
368A	26.091	0	9.303	.0305		Vertical Tail
87A	9.799	1.101	7.781	.031		Upper Mid Fuselage (LH)
88A	9.705	0.672	8.431	.026		
89A	9.717	1.709	6.654	.031		
102A	10.806	1.638	8.089	.023		
103A	10.806	0.867	8.523	.015		
122A	13.077	1.684	-	.0252		Upper Mid Fuselage (LH)
124A	13.107	1.128	-	.0308		
125A	13.077	0.868	-	.029		
126A	13.107	0.560	-	.0285		
127A	13.107	0.280	-	.0245		
139A	15.347	1.584	-	.0337		
140A	15.347	0.868	-	.0291		
404A	17.574	1.572	-	.0301		
405A	17.549	1.120	-	.0322		
406A	17.574	0.868	-	.0285		
407A		0.560	-	.0284		
408A		0.280	-	.0260		
410A	19.845	1.572	-	.0334		
155A	22.000	1.572	-	.0307		
156A	22.000	0.868	-	.0264		
157A	22.640	1.582	-	.0305		
158A		1.218	-	.0248		
159A		0.868	-	.0264		
160A		0.308	-	.0306		
36A	22.610	0.014	-	.0278		

\*Normal Value; Skin Thickness Not Measured



TABLE VI. 56-Ø MODEL THERMOCOUPLE LOCATIONS

T/C No.	b, in.	X/L	Z <sub>o</sub>
1	0.0215	0.275	437.5
2	0.0210	0.300	442.0
3	0.0217	0.325	445.0
4	0.0215	0.350	↓
5	0.0212	0.375	
6	0.0217	0.400	
7	0.0215	0.425	
8	0.0218	0.450	
9	0.0219	0.475	
10	0.0220	0.500	
11	0.0220	0.525	
12	0.0222	0.550	
13	0.0220	0.600	
14	0.0220	0.650	
15	0.0228	0.700	↓
16	0.0220	0.750	
17	0.0230	0.800	
18	0.0190	0.285	445.0
19	0.0189	0.337	420.0
20	0.0189	0.390	↓
21	0.0190	0.426	
22	0.0200	0.478	
23	0.0200	0.530	
24	0.0205	0.567	
25	0.0205	0.620	
26	0.0205	0.670	
27	0.0207	0.705	

T/C No.	b, in.	X/L	Z <sub>o</sub>
28	0.0203	0.750	420.0
29	0.0202	0.800	420.0
30	0.0160	0.824	420.0
31	0.0210	0.200	400.0
32	0.0199	0.225	↓
33	0.0199	0.250	
34	0.0186	0.275	
35	0.0180	0.300	
36	0.0190	0.325	
37	0.0192	0.350	
38	0.0190	0.375	
39	0.0189	0.400	
40	0.0188	0.425	
41	0.0195	0.450	
42	0.0200	0.475	↓
43	0.0200	0.500	
44	0.0190	0.525	
45	0.0200	0.550	
46	0.0205	0.600	
47	0.0210	0.650	
48	0.0202	0.700	
49	0.0205	0.750	
50	0.0208	0.800	
51	0.0180	0.850	
52	0.0180	0.875	
53	0.0160	0.900	
54	0.0170	0.925	400.0

T/C No.	b, in.	X/L	Z <sub>o</sub>	
55	0.0220	0.950	400.0	
56	0.0170	0.300	372.5	
57	0.0170	0.325	↓	
58	0.0170	0.350		
59	0.0170	0.375		
60	0.0170	0.400		
61	0.0170	0.425		
62	0.0172	0.450		
63	0.0175	0.475		
64	0.0180	0.500		
65	0.0180	0.525		
66	0.0190	0.550		
67	0.0198	0.600	↓	
68	0.0190	0.650		
69	0.0200	0.700		
70	0.0200	0.750	372.5	
71	0.0195	0.200	355.0	
72	0.0190	0.225	↓	
73	0.0190	0.250		
74	0.0180	0.275		
75	0.0185	0.800		
76	0.0188	0.850		
77	0.0170	0.875		
78	0.0172	0.900		
79	0.0180	0.925		
80	0.0190	0.950		355.0

TABLE VII. 83-Ø MODEL THERMOCOUPLE LOCATIONS

T/C NO.	LOCATION	$z_o$ (INCHES)	$x_o$ (INCHES)	$x/L$			SKIN THICKNESS (INCHES)	
161	UPPER RCS NOZZLES ↓	-7.5	315.0	0.0619			0.0265	
162		-7.5	326.7	0.0709			0.0212	
163		-7.5	339.3	0.0807			0.0275	
164		-7.5	357.0	0.0943			0.0292	
165		-7.5	361.5	0.0978			0.0282	
166		-7.5	366.0	0.1013			0.0287	
167		-15.0	315.0	0.0619			0.0303	
168		-15.0	326.7	0.0709			0.0235	
169		-15.0	339.3	0.0807			0.0272	
170		-15.0	357.0	0.0943			0.0280	
171		-15.0	361.5	0.0978			0.0270	
172		-15.0	366.0	0.1013			0.0292	
173		-22.5	339.3	0.0807			0.0299	
174		-22.5	357.0	0.0943			0.0255	
175		-22.5	361.5	0.0978			0.0321	
176		-22.5	366.0	0.1013			0.0305	

TABLE VII. Continued

T/C NO.	LOCATION	RAY	LINE	SKIN THICKNESS (INCHES)	
177	CANOPY ↓	1	4	0.0308	
178		1	6	0.0440	
179		2	6	0.0469	
180		3	3	0.0292	
181		3	4	0.0304	
182		3	5	0.0319	
183		4	1	0.0281	
184		↓	2	0.0306	
185			3	0.0269	
186			4	0.0281	
187			5	0.0298	
188		↓	6	0.0592	
189		5	3	0.0319	
190		5	4	0.0322	
191		5	5	0.0342	
192		6	2	0.0316	
193		6	6	0.0431	
194		7	3	0.0289	
195		7	4	0.0276	
196		7	5	0.0294	
197		8	1	0.0222	
198		↓	2	0.0260	
199			3	0.0301	
200			4	0.0319	

TABLE VII. Continued

T/C NO.	LOCATION	RAY	LINE	SKIN THICKNESS (INCHES)	
201	CANOPY	8	5	0.0316	
202		8	6	0.0283	
203		9	3	0.0278	
204		9	4	0.0348	
205		9	5	0.0349	
206		10	2	0.0297	
207		10	6	0.0300	
208		11	3	0.0301	
209		11	4	0.0308	
210		11	5	0.0299	
211		12	1	0.0272	
212			2	0.0302	
213			3	0.0297	
214			4	0.0314	
215			5	0.0318	
216			6	0.0318	
217			7	0.0319	
218		13	3	0.0309	
219			4	0.0315	
220			5	0.0308	
221		14	1	0.0271	
222			2	0.0276	
223			6	0.0304	

TABLE VII. CONTINUED

T/C NO.	LOCATION	X <sub>0</sub> (INCHES)	Y <sub>0</sub> (INCHES)	X/L	SKIN THICKNESS (INCHES)
	ESCAPE HATCH & WINDOW				
224		485.0	-7.6	0.1933	0.0233
225		490.0	-7.6	0.1972	0.0268
226		485.0	-18.0	0.1933	0.0236
227		490.0	-18.0	0.1972	0.0328
228		485.0	-30.6	0.1933	0.0288
229		490.0	-30.6	0.1972	0.0288
230		547.9	-10.8	0.2425	0.0314
231		560.0	-10.6	0.2519	0.0324
232		567.0	-11.0	0.2567	0.0303
233		572.0	-11.0	0.2606	0.0340
234		547.5	-23.0	0.2416	0.0305
235		559.5	-23.0	0.2509	0.0305
236		567.0	-23.0	0.2567	0.0328
237		572.0	-23.0	0.2606	0.0315

TABLE VII. Continued

T/C No.	Z <sub>0</sub>	X <sub>0</sub>	X/L	Skin Thickness	T/C No.	Z <sub>0</sub>	X <sub>0</sub>	X/L	Skin Thickness
					MHB LINE				
					300	396.663	0.125	0.0252	
					301	428.995	0.150	0.0280	
					302	461.3275	0.175	0.0306	
					303	493.660	0.200	0.0280	
					304	525.993	0.225	0.0205	
					305	558.325	0.250	0.0283	
					306	590.658	0.275	0.0340	
					307	655.323	0.325	0.0245	
					308	719.988	0.375	0.0290	
					309	784.318	0.425	0.0298	
					310	849.318	0.475	0.0272	
					311	355.0	493.66	0.200	0.0230
					312		525.993	0.225	0.0250
					313		558.325	0.250	0.0296
					314		590.658	0.275	0.0279
					315		622.990	0.300	0.0308
					316		655.323	0.325	0.0279
					317		687.655	0.350	0.0311
					318		719.988	0.375	0.0302
					319		752.320	0.400	0.0275
					320		784.653	0.425	0.0285
					321		816.985	0.450	0.0270
					322	355.0	849.318	0.475	0.0260
					323	378.0	493.660	0.200	0.0259
					324		525.993	0.225	0.0268
					325		558.325	0.250	0.0279
					326		590.658	0.275	0.0261
					327		622.990	0.300	0.0286
					328		655.323	0.325	0.0249
					329		687.655	0.350	0.0306
					330		719.988	0.375	0.0282
					331		752.320	0.400	0.0269
					332		784.653	0.425	0.0276
					333	378.0	816.985	0.450	0.0273
					334	400.0	525.993	0.225	0.0255
					335		558.325	0.250	0.0289
					336		590.658	0.275	0.0262
					337		622.990	0.300	0.0308
					338		655.323	0.325	0.0269
					339		687.655	0.350	0.0302
BOTTOM CENTERLINE									
273	236.25	0.0010	0.0269						
274	237.37	0.0018	0.0272						
275	240.25	0.0041	0.0277						
276	244.00	0.0070	0.0280						
277	248.28	0.0103	0.0279						
278	254.40	0.0150	0.0283						
279	260.75	0.0199	0.0232						
280	265.00	0.0232	0.0210						
281	269.00	0.0263	0.0190						
282	273.63	0.0299	0.0230						
283	278.75	0.0338	0.0231						
284	284.25	0.0381	0.0230						
285	288.50	0.0414	0.0230						
286	293.5	0.0452	0.0240						
287	300.00	0.0503	0.0230						
288	364.330	0.100	0.0280						
289	428.995	0.150	0.0300						
290	493.660	0.200	0.0260						
291	558.325	0.250	0.0273						
292	622.990	0.300	0.0275						
293	687.655	0.350	0.0261						
294	752.320	0.400	0.0276						
295	816.985	0.450	0.0292						
MHB LINE									
296	267.333	0.025	0.0292						
297	299.665	0.050	0.0268						
298	331.998	0.075	0.0270						
299	364.330	0.100	0.0278						

TABLE VII. Continued

T/C No.	Z <sub>o</sub>	X <sub>o</sub>	X/L	Skin Thickness	T/C No.	Z <sub>o</sub>	X <sub>o</sub>	X/L	Skin Thickness
MHB LINE (CONT'D)					TOP CENTERLINE (CONT'D)				
340	400.0	719.988	0.375	0.0300	374	254.50	0.0151	0.0293	
341	↑	752.320	0.400	0.0279	375	258.50	0.0182	0.0306	
342	↓	784.653	0.425	0.0270	376	262.75	0.0215	0.0295	
343	400.0	816.985	0.450	0.0276	377	266.75	0.0246	0.0288	
344	425.0	655.335	0.325	0.031	378	271.00	0.0278	0.0261	
345	↑	687.655	0.350	0.030	379	313.75	0.0609	0.0275	
346	↑	719.988	0.375	0.030	380	318.50	0.0646	0.023	
347	↑	752.320	0.400	0.030	381	323.50	0.0684	0.029	
348	↑	784.653	0.425	0.032	382	328.25	0.0721	0.0293	
349	↑	816.985	0.450	0.031	383	333.25	0.0760	0.030	
350	425.0	850.600	0.4760	0.033	384	338.00	0.0796	0.0312	
CCL LINE					385	358.00	0.0953	0.0288	
351		299.665	0.050	0.0271	386	362.60	0.0989	0.0265	
352		331.998	0.075	0.0269	387	366.75	0.1019	0.0275	
353		364.330	0.100	0.0263	388	385.00	0.1160	0.0213	
354		396.663	0.125	0.0268	389	389.50	0.1195	0.0325	
355		428.995	0.150	0.0273	390	394.25	0.1231	0.0353	
356		461.328	0.175	0.0311	391	399.00	0.1268	0.0357	
357		493.660	0.200	0.0262	392	403.75	0.1305	0.0384	
358		590.658	0.275	0.032	393	408.00	0.1338	0.0379	
359		622.990	0.300	0.0310	394	413.00	0.1376	0.0376	
360		655.323	0.325	0.030	395	417.50	0.1411	0.0335	
361		687.655	0.350	0.0305	396	422.25	0.1448	0.0332	
362		719.988	0.375	0.030	397	426.75	0.1483	0.0332	
363		752.320	0.400	0.032	398	431.50	0.1519	0.0315	
364		784.653	0.425	0.032	399	436.25	0.1556	0.0299	
365		816.985	0.450	0.032	400	439.63	0.1582	0.0302	
366		850.600	0.4760	0.0315	401	443.00	0.1608	0.0290	
TOP CENTERLINE					402	446.50	0.1635	0.0279	
367		235.000	0.000	0.0263	403	450.25	0.1664	0.0272	
368		236.000	0.0008	0.0284	404	453.75	0.1691	0.0271	
369		237.500	0.0019	0.0262	405	457.50	0.1720	0.0271	
370		239.750	0.0037	0.0273	406	461.00	0.1748	0.0271	
371		242.500	0.0058	0.0219	407	463.75	0.1769	0.0289	
372		246.250	0.0087	0.0268	408	466.75	0.1800	0.0328	
373		250.250	0.0118	0.0293	409	471.75	0.1831	0.0322	
					410	476.00	0.1863	0.0322	
					411	480.00	0.1894	0.0336	
					412	474.75	0.1931	0.0312	

TABLE VII Continued

T/C NO.	LOCATION	$Z_0$ (INCHES)	$X_0$ (INCHES)	$X/L$	$\theta$ (DEGREES)	SKIN THICKNESS (INCHES)
413	TOP CENTERLINE		490.00	0.1972		0.0300
414			500.00	0.2049		0.0300
415			525.993	0.2250		0.0221
416			558.325	0.250		0.0262
417			590.658	.275		0.0330
418			622.990	.300		0.0350
419			655.323	.325		0.0330
420			687.655	.350		0.0322
421			719.988	.375		0.0329
422			752.320	.400		0.0328
423			784.652	.425		0.0316
424			816.985	.450		0.0335
425			849.318	.475		0.034
426	PILOT RIGTH (Cross		270	.027	350	0.0206
427	Section)				343	0.0219
428					335	0.0239
429					324	0.0259
430					320	0.0279
431					310	0.0285
432					303	0.0288
433					295	0.0288
434					287.5	0.0292
435					280	0.0293
436					273	0.0295
437			300	.050	352.5	0.025
438					347	0.0258
439					339	0.0249
440					334	0.024



TABLE VII. Continued

T/C NO.	LOCATION	$Z_0$ (INCHES)	$X_0$ (INCHES)	$X/L$	$\theta$ (DEGREES)	SKIN THICKNESS (INCHES)
441	PILOT RIGT (Cross Section)  ↓		300	.050	327.5	0.024
442			↓	↓	321.5	0.028
443			↓	↓	318	0.0283
444			↓	↓	311	0.0270
445			↓	↓	306	0.026
446			↓	↓	300	0.0245
447			↓	↓	295	0.0225
448			↓	↓	289	0.0278
449			↓	↓	284	0.0258
450			↓	↓	274	0.0190
451			500	.2049	355	0.025
452			↓	↓	351	0.023
453			↓	↓	346	0.023
454			↓	↓	342	0.023
455			↓	↓	338	0.023
456			↓	↓	333	0.023
457			↓	↓	330	0.023
458			↓	↓	326	0.024
459			↓	↓	322	0.026
460			↓	↓	320	0.026
461			↓	↓	317	0.027
462			↓	↓	313.5	0.027
463			↓	↓	310.5	0.026
464			↓	↓	307	0.025
465			↓	↓	305	0.0263
466			↓	↓	303	0.027
467			↓	↓	300.5	0.0265
468			↓	↓	298	0.025

TABLE VII. Concluded

T/C NO.	LOCATION	$Z_0$ (INCHES)	$X_0$ (INCHES)	$X/L$	$\theta$ (DEGREES)	SKIN THICKNESS (INCHES)
469	PILOT RIGHT (Cross Section) ↓		500	.2049	295	0.028
470			↓	↓	292	0.023
471					290	0.023
472					287	0.021
473					284	0.0275
474					278	0.023
475					275.5	0.023
476					273	0.024
477					270	0.0253
501			260.75	.0200	348.5	0.022
502			↓	↓	338.2	0.021
503					328.7	0.025
504					320.5	0.028
505					312.3	0.027
506					303.5	0.025
507					296.5	0.021
508					287	0.019
509					278.6	0.023
510					270.0	0.023
511					262	0.026

TABLE VIII. THERMOCOUPLE CONSTANT SETS

CONSTANT SET 111

MODEL: 60-Ø, OH-84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	340	X/C	Z/BV	34	373	X/C	Z/BV	67	320	X <sub>0</sub>	Y <sub>0</sub>
2	341			35	374			68	321		
3	342			36	375			69	322		
4	343			37	376			70	323		
5	344			38	377			71	325		
6	345			39	378			72	327		
7	346			40	379			73	328		
8	347			41	380			74	329		
9	348			42	381			75	330		Y
10	349			43	382			76	331		Y <sub>0</sub>
11	350			44	383			77	332		Z <sub>0</sub>
12	351			45	384	Y	Y	78	333		
13	352			46	385	X/C	Z/BV	79	334		Y
14	353			47	298	X <sub>0</sub>	Y <sub>0</sub>	80	335		Z <sub>0</sub>
15	354			48	299			81	336		Y <sub>0</sub>
16	355			49	300			82	337		Z <sub>0</sub>
17	356			50	301			83	338	Y	
18	357			51	302			84	339	X <sub>0</sub>	Y
19	358			52	303			85	368A	X/L	Z <sub>0</sub>
20	359			53	304			86	397C	-	-
21	360			54	305			87	398C	-	-
22	361			55	306			88	399C	-	-
23	362			56	308			89	400C	-	-
24	363			57	309			90	110C	X/C	Y <sub>0</sub>
25	364			58	310			91	111C		
26	365			59	311			92	112C		
27	366			60	312			93	113C		
28	367			61	313			94	114C		
29	368			62	315			95	115C		
30	369			63	316			96	116C	Y	Y
31	370			64	317			97	117C	X/C	Y <sub>0</sub>
32	371	Y	Y	65	318	Y	Y				
33	372	X/C	Z/BV	66	319	X <sub>0</sub>	Y <sub>0</sub>				

TABLE VIII. (Continued)  
 CONSTANT SET 122  
 MODEL: 60-0, OH-84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	1	X/L	$\phi$	34	182	X/L	$\phi$	67	88A	X/L	Y
2	2	↓	↓	35	223	↓	↓	68	89A	↓	↓
3	3	↓	↓	36	234	↓	↓	69	103A	↓	↓
4	4	X/L	$\phi$	37	388	↓	↓	70	102A	↓	↓
5	120	X/C	Y	38	184	↓	↓	71	127A	↓	↓
6	121	↓	↓	39	225	↓	↓	72	126A	↓	↓
7	122	↓	↓	40	236	↓	↓	73	125A	↓	↓
8	123	↓	↓	41	390	↓	↓	74	124A	↓	↓
9	253	↓	↓	42	186	↓	↓	75	122A	↓	↓
10	254	↓	↓	43	188	↓	↓	76	140A	↓	↓
11	255	↓	↓	44	229	↓	↓	77	139A	↓	↓
12	256	↓	↓	45	240	↓	↓	78	408A	↓	↓
13	257	↓	↓	46	394	↓	↓	79	407A	↓	↓
14	258	↓	↓	47	190	↓	↓	80	406A	↓	↓
15	259	↓	↓	48	231	↓	↓	81	405A	↓	↓
16	260	↓	↓	49	242	↓	↓	82	404A	↓	↓
17	261	X/C	Y	50	279A	↓	↓	83	410A	↓	↓
18	460	2Y/B	X <sub>0</sub>	51	249A	↓	↓	84	156A	↓	↓
19	461	↓	↓	52	250A	↓	↓	85	155A	↓	↓
20	462	↓	↓	53	251A	↓	↓	86	36A	↓	↓
21	463	↓	↓	54	252A	↓	↓	87	160A	↓	↓
22	464	↓	↓	55	253A	↓	↓	88	159A	↓	↓
23	465	↓	↓	56	254A	↓	↓	89	158A	↓	↓
24	466	↓	↓	57	255A	↓	↓	90	157A	↓	↓
25	467	↓	↓	58	256A	↓	↓	91	320A	↓	↓
26	468	↓	↓	59	257A	↓	↓	92	321A	↓	↓
27	469	↓	↓	60	258A	↓	↓	93	322A	↓	↓
28	470	↓	↓	61	259A	↓	↓	94	323A	X/L	Z
29	471	↓	↓	62	260A	↓	↓	95	118C	X/C	Y
30	274	↓	↓	63	261A	↓	↓	96	119C	X/C	Y
31	472	↓	↓	64	262A	↓	↓	97	288C	X/L	Z
32	277	↓	↓	65	263A	↓	↓				
33	473	2Y/B	X <sub>0</sub>	66	87A	X/L	Y				

TABLE VIII. (Continued)

CONSTANT SET 133  
MODEL: 60-0, OH-84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	5	X/L	φ	34	218	X/L	Z	67	70A	X/L	Y
2	6		φ	35	219		Z	68	107A		
3	7		φ	36	23		φ	69	114A		
4	44		Y	37	24			70	115A		
5	202		Z	38	25		↓	71	116A		
6	203		↓	39	26	X/L	φ	72	117A		
7	204		↓	40	191	Y	Z	73	118A		
8	205		Z	41	192			74	130A		
9	8		φ	42	193			75	131A		
10	206		Z	43	194			76	132A		
11	9		φ	44	195			77	133A		
12	10		↓	45	196			78	134A		↓
13	11		↓	46	197			79	135A		Y
14	12		φ	47	198			80	220C		Z
15	45		Y	48	199			81	27C		φ
16	207		Y	49	200		↓	82	28C		φ
17	208		Y	50	201	Y	Z	83	50C		Y
18	209		Z	51	164	X/C	Y	84	62C		Y
19	13		φ	52	165		↓	85	29C		φ
20	14		↓	53	166			86	30C		φ
21	15		↓	54	167		↓	87	51C		Y
22	16		φ	55	168	X/C	Y	88	63C		Y
23	211		Y	56	18	X/L	φ	89	31C		φ
24	212		↓	57	278	X/C	Y	90	32C		φ
25	213		↓	58	279	X/C		91	52C		Y
26	214		Y	59	280	X/C		92	64C		Y
27	21		φ	60	37A	X/L	↓	93	33C		φ
28	17		φ	61	38A		Y	94	34C		φ
29	48		Y	62	39A		Z	95	53C		Y
30	19		φ	63	45A		Y	96	65C		Y
31	215		Y	64	46A		Z	97	35C		φ
32	216		Y	65	47A		Y				
33	217	X/L	Y	66	65A	X/L	Y			X/L	

TABLE VIII. (Continued)

CONSTANT SET 211  
MODEL: 60-0 OH84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	432	XN	$\Phi$ N	34	60	X/L	Y <sub>0</sub>	67	188A	X/L	Y <sub>0</sub>
2	433			35	69			68	189A		Y <sub>0</sub>
3	434			36	70			69	196A		Y <sub>0</sub>
4	435			37	71	↓		70	320A		Z <sub>0</sub>
5	436			38	72	X/L		71	321A		
6	437			39	164	X/C		72	322A		
7	438			40	165			73	323A		
8	439			41	166			74	336A		
9	440			42	167			75	337A		
10	441			43	168			76	338A		
11	442			44	156			77	339A		
12	443			45	158			78	341A		
13	444			46	159			79	342A		
14	445			47	146			80	343A	↓	
15	446			48	147			81	344A		Z <sub>0</sub>
16	447			49	148			82	34C		$\Phi$
17	448			50	138			83	35C		
18	449			51	139			84	36C		
19	450			52	140	↓		85	37C		
20	451			53	142	X/C		86	38C		↓
21	452	↓	↓	54	314A	X/L		87	39C		$\Phi$
22	453	XN	$\Phi$ N	55	315A			88	54C		Y <sub>0</sub>
23	428	Y <sub>0</sub>	Z <sub>0</sub>	56	316A			89	55C		
24	429	↓	↓	57	317A			90	56C		
25	430	↓	↓	58	318A			91	66C		
26	431	Y <sub>0</sub>	Z <sub>0</sub>	59	319A			92	67C		↓
27	40	X/L	$\Phi$	60	113A		↓	93	68C	↓	Y <sub>0</sub>
28	41		↓	61	191A		Y <sub>0</sub>	94	288C	X/L	Z <sub>0</sub>
29	42		↓	62	192A		Z <sub>0</sub>	95	155C	X/C	Y <sub>0</sub>
30	43		$\Phi$	63	193A		Z <sub>0</sub>	96	157C	X/C	Y <sub>0</sub>
31	57		Y <sub>0</sub>	64	194A		Z <sub>0</sub>	97	141C	X/C	Y <sub>0</sub>
32	58	↓	Y <sub>0</sub>	65	186A	↓	Y <sub>0</sub>				
33	59	X/L	Y <sub>0</sub>	66	187A	X/L	Y <sub>0</sub>				

TABLE VIII. (Continued)

CONSTANT SET 222  
MODEL: 60-0, OH-84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	143	X/C	Y <sub>0</sub>	34	464	2Y/B	X <sub>0</sub>	67	491	2Y/B	X/C
2	144			35	264	X/C	Y <sub>0</sub>	68	472	2Y/B	X <sub>0</sub>
3	131			36	465	2Y/B	X <sub>0</sub>	69	275	X/C	Y <sub>0</sub>
4	132			37	265	X/C	Y <sub>0</sub>	70	276	X/C	Y <sub>0</sub>
5	120			38	266	X/C	Y <sub>0</sub>	71	277	2Y/B	X <sub>0</sub>
6	121			39	267	X/C	Y <sub>0</sub>	72	278	X/C	Y <sub>0</sub>
7	122			40	477	2Y/B	X <sub>0</sub>	73	279	X/C	Y <sub>0</sub>
8	123			41	268	X/C	Y <sub>0</sub>	74	280	X/C	Y <sub>0</sub>
9	107			42	466	2Y/B	X <sub>0</sub>	75	473	2Y/B	X <sub>0</sub>
10	95			43	269	X/C	Y <sub>0</sub>	76	253	X/C	Y <sub>0</sub>
11	96			44	270	X/C	Y <sub>0</sub>	77	254	X/C	
12	97			45	467	2Y/B	X <sub>0</sub>	78	255	X/C	
13	83			46	478		X/C	79	197A	X/L	
14	84			47	479			80	279A	X/L	
15	247			48	480		↓	81	130C	X/C	
16	248			49	481		X/C	82	116C		
17	249			50	468	↓	X <sub>0</sub>	83	117C		
18	250			51	482	2Y/B	X	84	118C		
19	251	↓	↓	52	271	X/C	Y <sub>0</sub>	85	119C		
20	252	X/C	Y <sub>0</sub>	53	469	2Y/B	X <sub>0</sub>	86	104C		
21	460	2Y/B	X <sub>0</sub>	54	483		X	87	105C		
22	461	2Y/B	X <sub>0</sub>	55	484		X/C	88	106C		
23	256	X/C	Y <sub>0</sub>	56	485			89	92C		
24	257			57	486			90	93C		
25	258	↓	↓	58	487			91	94C		
26	259	X/C	Y <sub>0</sub>	59	488		↓	92	78C		
27	462	2Y/B	X <sub>0</sub>	60	489		X/C	93	79C		
28	260	X/C	Y <sub>0</sub>	61	470		X <sub>0</sub>	94	80C		
29	261	X/C	Y <sub>0</sub>	62	490	↓	X	95	81C	↓	↓
30	463	2Y/B	X <sub>0</sub>	63	471	2Y/B	X <sub>0</sub>	96	82C	X/C	Y <sub>0</sub>
31	262	X/C	Y <sub>0</sub>	64	272	X/C	Y <sub>0</sub>	97			
32	263	X/C	Y <sub>0</sub>	65	273	X/C	Y <sub>0</sub>				
33	476	2Y/B	X/C	66	274	2Y/B	X <sub>0</sub>				

TABLE VIII. (Continued)

CONSTANT SET 311  
MODEL: 56-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	1	X/L	Z	34	34	X/L	Z	67	67	X/L	Z
2	2			35	35			68	68		
3	3			36	36			69	69		
4	4			37	37			70	70		
5	5			38	38			71	71		
6	6			39	39			72	72		
7	7			40	40			73	73		
8	8			41	41			74	74		
9	9			42	42			75	75		
10	10			43	43			76	76		
11	11			44	44			77	77		
12	12			45	45			78	78		
13	13			46	46			79	79		
14	14			47	47			80	80		
15	15			48	48			81			
16	16			49	49			82			
17	17			50	50			83			
18	18			51	51			84			
19	19			52	52			85			
20	20			53	53			86			
21	21			54	54			87			
22	22			55	55			88			
23	23			56	56			89			
24	24			57	57			90			
25	25			58	58			91			
26	26			59	59			92			
27	27			60	60			93			
28	28			61	61			94			
29	29			62	62			95			
30	30			63	63			96			
31	31			64	64			97			
32	32			65	65						
33	33			66	66						



TABLE VIII. (Continued)

CONSTANT SET 411

MODEL: 83-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	273	X/L	$\phi$	34	307	X/L	Z	67	345	X/L	Z
2	274			35	308			68	346		
3	275			36	309			69	347		
4	276			37	311			70	348		
5	277			38	312			71	351		
6	278			39	313			72	352		
7	279			40	314			73	353		
8	280			41	315			74	354		
9	281			42	316			75	355		
10	282			43	317			76	356		
11	283			44	318			77	357		
12	284			45	319			78	358		
13	285			46	320			79	359		
14	286			47	323			80	360		
15	287			48	324			81	361		
16	288			49	325			82	362		
17	289			50	326			83	363		
18	290			51	327			84	364		$\downarrow$ Z
19	291			52	328			85	427		$\phi$
20	292			53	329			86	428		
21	293		$\downarrow$	54	330			87	429		
22	294		$\phi$	55	331			88	430		
23	296		Z	56	332			89	431		
24	297			57	334			90	432		
25	298			58	335			91	433		
26	299			59	336			92	434		
27	300			60	337			93	435		
28	301			61	338			94	436		
29	302			62	339			95	437	$\downarrow$	$\downarrow$
30	303			63	340			96	438	X/L	$\phi$
31	304			64	341			97			
32	305	$\downarrow$	$\downarrow$	65	342	$\downarrow$	$\downarrow$				
33	306	X/L	Z	66	344	X/L	Z				

TABLE VIII. (Continued)

CONSTANT SET 422  
MODEL: 83-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	439	X/L	φ	34	472	X/L	φ	67	394	X/L	φ
2	440			35	473			68	395		
3	441			36	474			69	396		
4	442			37	475			70	397		
5	443			38	476			71	398		
6	444			39	477			72	399		
7	445			40	367			73	400		
8	446			41	368			74	401		
9	447			42	369			75	402		
10	448			43	370			76	403		
11	449			44	371			77	404		
12	450			45	372			78	405		
13	451			46	373			79	406		
14	452			47	374			80	407		
15	453			48	375			81	408		
16	454			49	376			82	409		
17	455			50	377			83	410		
18	456			51	378			84	411		
19	457			52	379			85	412		
20	458			53	380			86	413		
21	459			54	381			87	414		
22	460			55	382			88	415		
23	461			56	383			89	416		
24	462			57	384			90	417		
25	463			58	385			91	418		
26	464			59	386			92	419		
27	465			60	387			93	420		
28	466			61	388			94	421		
29	467			62	389			95	422	↓	↓
30	468			63	390			96	423	X/L	φ
31	469			64	391			97			
32	470	↓	↓	65	392	↓	↓				
33	471	X/L	φ	66	393	X/L	φ				

TABLE VIII. (Continued)

CONSTANT SET 511  
MODEL: 60-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	340	X/C	Z/BV	34	373	X/C	Z/BV	67	320	X <sub>0</sub>	Y <sub>0</sub>
2	341			35	374			68	321		
3	342			36	375			69	322		
4	343			37	376			70	323		
5	344			38	377			71	325		
6	345			39	378			72	327		
7	346			40	379			73	328		
8	347			41	380			74	329		
9	348			42	381			75	330		✓
10	349			43	382			76	331		Y <sub>0</sub>
11	350			44	383			77	332		Z <sub>0</sub>
12	351			45	384	↓	↓	78	333		Z <sub>0</sub>
13	352			46	385	X/C	Z/BV	79	334		Z <sub>0</sub>
14	353			47	298	X <sub>0</sub>	Y <sub>0</sub>	80	336		Y <sub>0</sub>
15	354			48	299			81	337		Z <sub>0</sub>
16	355			49	300			82	338	↓	Z <sub>0</sub>
17	356			50	301			83	339	X <sub>0</sub>	Z <sub>0</sub>
18	357			51	302			84	249A	X/L	Y <sub>0</sub>
19	358			52	303			85	250A		
20	359			53	304			86	251A		
21	360			54	305			87	252A		
22	361			55	306			88	253A		
23	362			56	308			89	254A		
24	363			57	309			90	255A		
25	364			58	310			91	256A		
26	365			59	311			92	257A		
27	366			60	312			93	258A		
28	367			61	313			94	259A		↓
29	368			62	315			95	260A	↓	Y <sub>0</sub>
30	369			63	316			96	368A	X/L	Z <sub>0</sub>
31	370			64	317			97			
32	371	↓	↓	65	318	↓	↓				
33	372	X/C	Z/BV	66	319	X <sub>0</sub>	Y <sub>0</sub>				

TABLE VIII. (Continued)

CONSTANT SET 522  
MODEL: 60-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	4	X/L	$\phi$	34	268	X/C	$Y_0$	67	280	X/C	$Y_0$
2	7	X/L	$\phi$	35	466	2Y/B	$X_0$	68	473	2Y/B	$X_0$
3	227	X/L	$\phi$	36	269	X/C	$Y_0$	69	169	X/L	$\phi$
4	246	X/C	Y	37	270	X/C	$Y_0$	70	170		
5	247			38	467	2Y/B	$X_0$	71	171		
6	248			39	478		X/C	72	172		
7	249			40	479			73	173		
8	250			41	480		$\downarrow$	74	174		
9	251	$\downarrow$	$\downarrow$	42	481		X/C	75	175		
10	252	X/C	Y	43	468	$\downarrow$	$X_0$	76	176		
11	460	2Y/B	$X_0$	44	482	2Y/B	X/C	77	177		
12	461	2Y/B	$X_0$	45	271	X/C	$Y_0$	78	178		
13	253	X/C	$Y_0$	46	469	2Y/B	$X_0$	79	179		
14	254			47	483		X/C	80	182		
15	255			48	484			81	183		
16	256			49	485			82	184		
17	257			50	486			83	185		
18	258	$\downarrow$	$\downarrow$	51	487			84	186		
19	259	X/C	$Y_0$	52	488		$\downarrow$	85	187		
20	462	2Y/B	$X_0$	53	489		X/C	86	188		
21	260	X/C	$Y_0$	54	470		$X_0$	87	189		$\downarrow$
22	261	X/C	$Y_0$	55	490	$\downarrow$	$X_0$	88	190		$\phi$
23	463	2Y/B	$X_0$	56	471	2Y/B	$X_0$	89	87A		$Y_0$
24	262	X/C	$Y_0$	57	272	X/C	$Y_0$	90	88A		
25	263	X/C	$Y_0$	58	273	X/C	$Y_0$	91	89A		
26	476	2Y/B	X/C	59	274	X/C	$Y_0$	92	103A		
27	464	2Y/B	X/C	60	491	2Y/B	X/C	93	102A		
28	264	X/C	$Y_0$	61	472	2Y/B	$X_0$	94	261A		
29	465	2Y/B	X/C	62	275	X/C	$Y_0$	95	262A	$\downarrow$	$\downarrow$
30	265	X/C	$Y_0$	63	276			96	263A	X/L	$Y_0$
31	266	X/C	$Y_0$	64	277			97			
32	267	X/C	$Y_0$	65	278	$\downarrow$	$\downarrow$				
33	477	2Y/B	X/C	66	279	X/C	$Y_0$				

TABLE VIII. (Continued)  
 CONSTANT SET 533  
 MODEL: 60-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	223	X/L	$\phi$	34	198	$Y_0$	$Z_0$	67	404A	X/L	$Y_0$
2	234		$\phi$	35	199			68	410A		
3	388		$Z_0$	36	200			69	156A		
4	224		$\phi$	37	201	$Y_0$		70	155A		
5	235		$\phi$	38	202	X/L		71	36A		
6	389		$Z_0$	39	203			72	160A		
7	225		$\phi$	40	204			73	159A		
8	236		$\phi$	41	205			74	158A		
9	390		$Z_0$	42	206			75	157A		
10	226		$\phi$	43	207			76	320A		
11	237		$\phi$	44	208			77	321A		
12	391		$Z_0$	45	209			78	322A		
13	238		$\phi$	46	210			79	323A		
14	392		$Z_0$	47	211			80	336A		
15	228		$\phi$	48	212			81	337A		
16	239		$\phi$	49	213			82	338A		
17	393		$Z_0$	50	214			83	339A		
18	229		$\phi$	51	215			84	341A		
19	240		$\phi$	52	216			85	342A		
20	394		$Z_0$	53	217			86	343A		
21	230		$\phi$	54	218			87	344A		
22	241		$\phi$	55	219			88	37A		
23	395		$Z_0$	56	127A			89	38A		
24	231		$\phi$	57	126A			90	39A		
25	242		$\phi$	58	125A			91	45A		
26	396	X/L	$Z_0$	59	124A			92	46A		
27	191	$Y_0$	$Z_0$	60	122A			93	47A		
28	192			61	140A			94	70A		
29	193			62	139A			95	220C		
30	194			63	408A			96	288C	X/L	
31	195			64	407A			97			
32	196			65	406A						
33	197	$Y_0$	$Z_0$	66	405A	X/L	$Y_0$				

TABLE VIII. (Continued)

CONSTANT SET 711  
MODEL: 60-Ø, 0H-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	340	X/C	Z/BV	34	373	X/C	Z/BV	67	320	X <sub>0</sub>	Y <sub>0</sub>
2	341			35	374			68	321		
3	342			36	375			69	322		
4	343			37	376			70	323		
5	344			38	377			71	325		
6	345			39	378			72	327		
7	346			40	379			73	328		
8	347			41	380			74	329		
9	348			42	381			75	330		Y
10	349			43	382			76	331		Y <sub>0</sub>
11	350			44	383			77	332		Z <sub>0</sub>
12	351			45	384	Y	Y	78	333		
13	352			46	385	X/C	Z/BV	79	334		
14	353			47	298	X <sub>0</sub>	Y <sub>0</sub>	80	335		Z <sub>0</sub>
15	354			48	299			81	336		Y <sub>0</sub>
16	355			49	300			82	337		Z <sub>0</sub>
17	356			50	301			83	338	Y	
18	357			51	302			84	339	X <sub>0</sub>	
19	358			52	303			85	368A	X/L	Z <sub>0</sub>
20	359			53	304			86	397C	-	-
21	360			54	305			87	398C	-	-
22	361			55	306			88	399C	-	-
23	362			56	308			89	400C	-	-
24	363			57	309			90	110C	X/C	Y <sub>0</sub>
25	364			58	310			91	111C		
26	365			59	311			92	112C		
27	366			60	312			93	113C		
28	367			61	313			94	114C		
29	368			62	315			95	115C		
30	369			63	316			96	116C	Y	Y
31	370			64	317			97	117C	X/C	Y <sub>0</sub>
32	371	Y	Y	65	318	Y	Y				
33	372	X/C	Z/BV	66	319	X <sub>0</sub>	Y <sub>0</sub>				

TABLE VIII. (Continued)

CONSTANT SET 722

MODEL: 60-O, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	1	X/L	$\phi$	34	182	X/L	$\phi$	67	88A	X/L	Y
2	2			35	223			68	89A		
3	3	$\downarrow$	$\downarrow$	36	234			69	103A		
4	4	X/L	$\phi$	37	388			70	102A		
5	120	X/C	Y	38	184			71	127A		
6	121			39	225			72	126A		
7	122			40	236			73	125A		
8	123			41	390			74	124A		
9	253			42	186			75	122A		
10	254			43	188			76	140A		
11	255			44	229			77	139A		
12	256			45	240			78	408A		
13	257			46	394			79	407A		
14	258			47	190			80	406A		
15	259			48	231		$\downarrow$	81	405A		
16	260	$\downarrow$	$\downarrow$	49	242		$\phi$	82	404A		
17	261	X/C	Y	50	279A		Y	83	410A		
18	460	2Y/B	X <sub>0</sub>	51	249A			84	156A		
19	461			52	250A			85	155A		
20	462			53	251A			86	36A		
21	463			54	252A			87	160A		
22	464			55	253A			88	159A		
23	465			56	254A			89	158A		$\downarrow$
24	466			57	255A			90	157A		Y
25	467			58	256A			91	320A		Z
26	468			59	257A			92	321A		$\downarrow$
27	469			60	258A			93	322A	$\downarrow$	$\downarrow$
28	470			61	259A			94	323A	X/L	Z
29	471			62	260A			95	118C	X/C	Y
30	274			63	261A			96	119C	X/C	Y
31	472			64	262A			97	288C	X/L	Z
32	277	$\downarrow$	$\downarrow$	65	263A	$\downarrow$	$\downarrow$				
33	473	2Y/B	X <sub>0</sub>	66	87A	X/L	Y				

TABLE VIII. (Continued)  
 CONSTANT SET 733  
 MODEL: 60-0, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	5	X/L	φ	34	218	X/L	Z	67	70A	X/L	Y
2	6		φ	35	219		Z	68	107A		
3	7		φ	36	23		φ	69	114A		
4	44		Y	37	24			70	115A		
5	202		Z	38	25			71	116A		
6	203			39	26	X/L	φ	72	117A		
7	204			40	191	Y	Z	73	118A		
8	205		Z	41	192			74	130A		
9	8		φ	42	193			75	131A		
10	206		Z	43	194			76	132A		
11	9		φ	44	195			77	133A		
12	10			45	196			78	134A		
13	11			46	197			79	135A		
14	12		φ	47	198			80	220C		
15	45		Y	48	199			81	27C		
16	207		Y	49	200			82	28C		
17	208		Y	50	201	Y	Z	83	50C		
18	209		Z	51	164	X/C	Y	84	62C		
19	13		φ	52	165			85	29C		
20	14			53	166			86	30C		
21	15			54	167			87	51C		
22	16		φ	55	168	X/C	Y	88	63C		
23	211		Y	56	18	X/L	φ	89	31C		
24	212			57	278	X/C	Y	90	32C		
25	213			58	279	X/C		91	52C		
26	214		Y	59	280	X/C		92	64C		
27	21		φ	60	37A	X/L		93	33C		
28	17		φ	61	38A		Y	94	34C		
29	48		Y	62	39A		Z	95	53C		
30	19		φ	63	45A		Y	96	65C		
31	215		Y	64	46A		Z	97	35C		
32	216		Y	65	47A		Y				
33	217	X/L	Y	66	65A	X/L	Y				



TABLE VIII. (Continued)

 CONSTANT SET 811  
 MODEL: 60-0, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	276	X/C	$Y_0$	34	132	X/C	$Y_0$	67	191A	X/L	$Y_0$
2	40	X/L	$\phi$	35	139			68	192A		$Z_0$
3	41			36	140			69	193A		$Z_0$
4	42			37	142			70	194A		$Z_0$
5	43		$\phi_0$	38	143			71	22C		$\phi$
6	57		$Y_0$	39	144			72	36C		
7	58			40	147			73	37C		
8	59			41	148			74	38C		$\nabla$
9	60			42	150			75	39C		$\phi$
10	69			43	151			76	54C		$Y_0$
11	70			44	152			77	55C		
12	71		$\nabla$	45	153			78	56C		
13	72	$\nabla$	$Y_0$	46	154			79	66C		
14	20	X/L	$\phi$	47	156			80	67C	$\nabla$	
15	251	X/C	$Y_0$	48	158			81	68C	X/L	
16	252			49	159			82	77C	X/C	
17	264			50	162	$\nabla$	$\nabla$	83	78C		
18	269	$\nabla$	$\nabla$	51	163	X/C	$Y_0$	84	79C		
19	270	X/C	$Y_0$	52	41A	X/L	$Z_0$	85	80C		
20	482	2Y/B	$X_0$	53	186A		$Y_0$	86	81C		
21	271	X/C	$Y_0$	54	187A			87	82C		
22	483	2Y/B	$X_0$	55	188A			88	90C		
23	484		X/C	56	189A		$\nabla$	89	91C		
24	485		X/C	57	196A		$Y_0$	90	92C		
25	490	$\nabla$	$X_0$	58	336A		$Z_0$	91	93C		
26	491	2Y/B	X/C	59	337A			92	94C		
27	83	X/C	$Y_0$	60	338A			93	105C		
28	84			61	339A			94	106C		
29	95			62	341A			95	141C		
30	96			63	342A			96	155C	$\nabla$	$\nabla$
31	97			64	343A		$\nabla$	97	157C	X/C	$Y_0$
32	107	$\nabla$	$\nabla$	65	344A	$\nabla$	$Z_0$				
33	131	X/C	$Y_0$	66	113A	X/L	$Y_0$				

TABLE VIII. (Continued)

CONSTANT SET 911  
MODEL: 83-Ø, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	177	RAY	LINE	34	210	RAY	LINE	67	166	X/L	Z <sub>0</sub>
2	178			35	211			68	167		
3	179			36	212			69	168		
4	180			37	213			70	169		
5	181			38	214			71	170		
6	182			39	215			72	171		
7	183			40	216			73	172		
8	184			41	217			74	173		
9	185			42	218			75	174		
10	186			43	219			76	175		↓
11	187			44	220			77	176		Z <sub>0</sub>
12	188			45	221			78	379		φ
13	189			46	222	↓	↓	79	380		
14	190			47	223	RAY	LINE	80	381		
15	191			48	224	X/L	Y <sub>0</sub>	81	382		
16	192			49	225			82	383		
17	193			50	226			83	384		
18	194			51	227			84	385		
19	195			52	228			85	386		
20	196			53	229			86	387		
21	197			54	230			87	388		
22	198			55	231			88	389		
23	199			56	232			89	390		
24	200			57	233			90	391		
25	201			58	234			91	392		
26	202			59	235			92	393		
27	203			60	236			93	394		
28	204			61	237			94	395		
29	205			62	161			95	396		
30	206			63	162			96	397		
31	207			64	163			97	398		
32	208	↓	↓	65	164	↓	↓			↓	↓
33	209	RAY	LINE	66	165	X/L	Z <sub>0</sub>			X/L	φ

TABLE VIII. (Concluded)

CONSTANT SET 922

MODEL: 83-0, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	399	X/L	φ	34	288	X/L	φ	67	451	X/L	φ
2	400			35	289			68	452		
3	401			36	290			69	453		
4	402			37	291			70	454		
5	403			38	292			71	455		
6	404			39	293			72	456		
7	405			40	294			73	457		
8	406			41	426			74	458		
9	407			42	427			75	459		
10	408			43	428			76	460		
11	409			44	429			77	461		
12	410			45	430			78	462		
13	411			46	431			79	463		
14	412			47	432			80	464		
15	413			48	433			81	465		
16	414			49	434			82	466		
17	415			50	435			83	467		
18	416			51	436			84	468		
19	273			52	437			85	469		
20	274			53	438			86	470		
21	275			54	439			87	471		
22	276			55	440			88	472		↓
23	277			56	441			89	473		φ
24	278			57	442			90	303		-
25	279			58	443			91	474		φ
26	280			59	444			92	475		φ
27	281			60	445			93	476		φ
28	282			61	446			94	296		-
29	283			62	447			95	298		
30	284			63	448		↓	96	299	↓	
31	285			64	449		φ	97	300	X/L	-
32	286	↓	↓	65	297	↓	-				
33	287	X/L	φ	66	450	X/L	φ				

TABLE IX. 60-Ø MODEL LOCAL SURFACE DEFLECTION ANGLES

T/C NO	$\epsilon$ , DEG	T/C NO	$\epsilon$ , DEG	T/C NO	$\epsilon$ , DEG	T/C NO	$\epsilon$ , DEG
1	90	21	2.0	41	-4.5	70	-4.5
2	50	22C	1.4	42	-4.5	71	-4.5
3	35.5	23	1.0	43	-4.5	72	-4.5
4	23.0	24	↓				
5	17.7	25		50 C	1.0	73C	90.0
6	14.4	26		51 C	↓	74C	8.0
7	12.0	27C		52 C		75C	6.75
8	10.3	28C		53 C		76C	4.6
9	8.6	29C		54 C		77C	3.25
10	7.3	30C		55 C		78C	2.75
11	6.4	31C				79C	1.0
12	5.5	32C		61 C	1.0	80C	1.1
13	4.3	33C		62 C	↓	81C	0.75
14	3.9	34C	1.0	63 C		82C	-0.5
15	3.6	35C	-1.5	64 C		83	-5.7
16	3.4	36C	-2.0	65 C		84	-8.0
17	3.1	37C	-2.6	66 C	-2.0		
18	2.8	38C	-3.2	67 C	-3.2		
19	2.6	39C	-3.8	68 C	-3.8		
20	2.3	40	-4.5	69	-4.5		

TABLE IX. Concluded

T/c NO	E, DEG	T/c NO	E, DEG	T/c NO	E, DEG	T/c NO	E, DEG
86 C	90.0	106 C	0.6	127 C	4.5	148	-7.25
87 C	12.5	108 C	90.0	128 C	2.25	149	90.0
88 C	6.9	109 C	90.0	129 C	1.2	150	2.5
89 C	2.5	110 C	16.75	130 C	1.2	151	2.0
90 C	1.1	111 C	10.5	131	1.0	152	90.0
91 C	1.0	112 C	6.25	132	-7.5	153	3.75
92 C	1.6	113 C	4.0	133	90.0	154	3.0
93 C	1.1	114 C	1.5	134	18.0	155 C	2.25
94 C	0.2	115 C	1.5	135	9.0	157 C	1.75
95	-3.5	116 C	1.75	136	4.5	158	-3.0
96	-7.5	117 C	1.1	137	2.1	159	-7.75
97	-9.25	118 C	1.0	138	1.6	160	90.0
98 C	90.0	119 C	-0.5	139	1.5	161	8.5
99 C	90.0	120	-3.5	141 C	1.0	162	5.0
100 C	11.2	121	-4.6	142	-3.4	163	2.5
101 C	5.0	122	-8.0	143	-7.4	164	2.0
102 C	2.0	123	-9.25	144	-8.9	165	1.5
103 C	1.5	124 C	90.0	145	90.0	166	-0.5
104 C	1.25	125 C	90.0	146	2.0	167	-4.5
105 C	1.0	126 C	17.5	147	1.75	168	-7.5

TABLE X.  
83-Ø MODEL LOCAL SURFACE DEFLECTION ANGLES

T/C NO	E, DEG	T/C NO	E, DEG
273	89.0	294	1.0
274	85.0	295	1.0
275	75.0		
276	43.0		
277	35.5		
279	23.0		
280	21.0		
281	20.0		
282	17.7		
283	16.5		
284	15.1		
285	14.1		
286	13.5		
287	12.0		
288	5.0		
289	3.4		
290	2.0		
291	1.0		
292	1.0		
293	1.0		

TABLE XI. PLOTTED THERMOCOUPLES

Test: OH-P4B, OH-105 Model: 60-0 (Base Sting)

Con. Set 111, 711			Con. Set 122, 722			Con. Set 133, 733		
WMS PND - SW. POS. 1			WING UPPER SURF. SW. POS. 2			FUS. LOWER & - SW. POS. 3		
T/C NO.	X/L	TRACE	T/C NO.	2Y/6	X <sub>0</sub>	T/C NO.	X/L	
298	0.843	1	460	0.50	1373.54	5	0.03	
308	.881		461	.55		6	.04	
315	.920		462	.60		7	.05	
320	.939	Y	463	.65		8	.06	
			464	.70		9	.07	
302	0.862	2	465	.725		10	.08	
309	.881		466	.75		11	.09	
316	.920		467	.775		12	.10	
321	.939		468	.80		13	.12	
327	.978	Y	469	.825		14	.13	
			470	.85		15	.14	
303	0.862	3	471	.875		16	.15	
310	.881		274	.90		18	.17	
317	.920		472	.925		21	.20	
322	.939		277	.95		23	.25	
328	.978	Y	473	.975	Y	24	.30	
						25	.35	
299	0.843	4				26	.40	
304	.862					27C	.45	
311	.881					28C	.50	
318	.920					29C	.55	
323	.939					30C	.60	
329	.978	Y				31C	.65	
						32C	.70	
300	0.843	5				33C	.75	
305	.862					34C	.80	
312	.881					35C	.90	
319	.920							
330	.978	Y				19	.18	
						17	.16	
301	0.843	6						
306	.862							
313	.901							
325	.939							
331	.978	Y						

TABLE XI. Continued

Test: OH-84B      Model: 60-0 (Offset String)

Model: 60-0 (Offset String)

117



TABLE XI. Continued

Test: IH-102 Model: 56-0

Con. Set 311

TRACE NO.	FUSELAGE SIDE			TRACE NO.	FUSELAGE SIDE		
	T/C	X/L	Z <sub>0</sub>		T/C	X/L	Z <sub>0</sub>
1 ↓	1	.275	437.5	3 ↓	31	.200	400.0
	2	.300	442.0		32	.225	
	3	.325	445.0		33	.250	
	4	.350			34	.275	
	5	.375			35	.300	
	6	.40			36	.325	
	7	.425			37	.350	
	8	.45			38	.375	
	9	.475			39	.400	
	10	.50			40	.425	
	11	.525			41	.450	
	12	.550			42	.475	
	13	.600			43	.500	
	14	.650			44	.525	
	15	.700			45	.550	
	16	.750			46	.600	
	17	.800			47	.650	
2 ↓	18	.285	420.0		48	.700	
	19	.337			49	.750	
	20	.390			50	.800	
	21	.426			51	.850	
	22	.478			52	.875	
	23	.530			53	.900	
	24	.567			54	.925	
	25	.620			55	.950	
	26	.670					
	27	.705					
	28	.750					
	29	.800					
	30	.824					

TABLE XI. Continued

Test: IH-102 Model: 56-0

Con. Set 311

TRACE NO.	FUSELAGE SIDE		
	T/C	X/L	Z <sub>0</sub>
4 ↓	56	.300	372.5 ↓
	57	.325	
	58	.350	
	59	.375	
	60	.400	
	61	.425	
	62	.450	
	63	.475	
	64	.500	
	65	.525	
	66	.550	
	67	.600	
	68	.650	
	69	.700	
	70	.750	
5 ↓	71	.200	355.0 ↓
	72	.225	
	73	.250	
	74	.275	
	75	.800	
	76	.850	
	77	.875	
	78	.900	
	79	.925	
	80	.950	

TABLE XI. Continued

Test: IH-102

Model: 83-0

Con. Set 411			Con. Set 422		
X <sub>0</sub> =270 X-SECTION - SW. POS. 1			UPPER E - SW. POS. 2		UPPER E CONT. - SW. POS. 2
T/C NO.	θ (DEG)		T/C NO.	X/L	T/C NO. X/L
427	343		367	0.000	404 0.170
428	335		368	.001	405 .172
429	324		369	.002	406 .175
430	320		370	.004	407 .177
431	310		371	.006	408 .180
432	303		372	.009	409 .183
433	295		373	.012	410 .187
434	287.5		374	.015	411 .190
435	280		375	.018	412 .194
436	273		376	.022	413 .198
			377	.025	414 .205
			378	.028	415 .226
			379	.061	416 .251
			380	.065	417 .276
			381	.069	418 .301
			382	.072	419 .326
			383	.076	420 .351
			384	.080	421 .376
			385	.095	422 .401
			386	.099	423 .426
			387	.102	
			388	.116	
			389	.120	
			390	.123	
			391	.127	
			392	.131	
			393	.134	
			394	.138	
			395	.141	
			396	.145	
			397	.149	
			398	.152	
			399	.156	
			400	.159	
			401	.161	
			402	.164	
			403	.167	

TABLE XI. Continued

Test: IH-102

Model: 60-0

Con. Set 511			Con. Set 522			Con. Set 533		
OMS POD - SW. POS. 1			TOP E - SW. POS. 2			LOWER SIDE AT ELEVON GAP - SW. POS. 3		
T/C NO.	X/L	TRACE	T/C NO.	X/L		T/C NO.	X/L	Z.
298	0.843	1	169	0.010		320A	0.906	318.0
308	.881		170	.025		321A	.921	
315	.920		171	.050		322A	.946	
320	.939	↑	172	.075		323A	.971	↑
			173	.100				
302	0.862	2	174	.125		336A	0.906	280
309	.881		175	.150		337A	.921	
316	.920		176	.160		338A	.948	
321	.939		177	.170		339A	.923	↑
327	.978	↑	178	.180				
			179	.200		341A	0.906	268
303	0.862	3	182	.40		342A	.921	↑
310	.881		183	.45		343A	.946	270
317	.920		184	.50		344A	.973	272
322	.939		185	.55				
328	.978	↑	186	.60				
			187	.65				
299	0.843	4	188	.70				
304	.862		189	.75				
311	.881		190	.80				
318	.920							
323	.939							
329	.978	↑						
300	.843	5						
305	.862							
312	.881							
319	.920							
330	.978	↑						
301	0.843	6						
306	.862							
313	.901							
325	.939							
331	.978	↑						

TABLE XI. Continued

Test: OH-105

Model: 60-0 (Base String)

Con. Set. 811

COVER AFT. FUS. BODY FLAP. SW. POS. 4

T/C NO.	X/L	Y <sub>0</sub>	T/C NO.	T/C NO.
36 C	0.90	0		
37 C	.925			
38 C	.950			
39 C	.975			
40	1.015			
41	1.03			
42	1.045			
43	1.06	↓		
54 C	0.90	46.8		
55 C	.95			
56 C	.975			
57	1.015			
58	1.03			
59	1.045			
60	1.06	↓		
66 C	0.90	93.6		
67 C	.95			
68 C	.975			
69	1.015			
70	1.03			
71	1.045			
72	1.06	↓		
186 A	0.893	103.94		
187 A	.920	107.6		
188 A	.944	109.2		
189 A	.964	113.2		



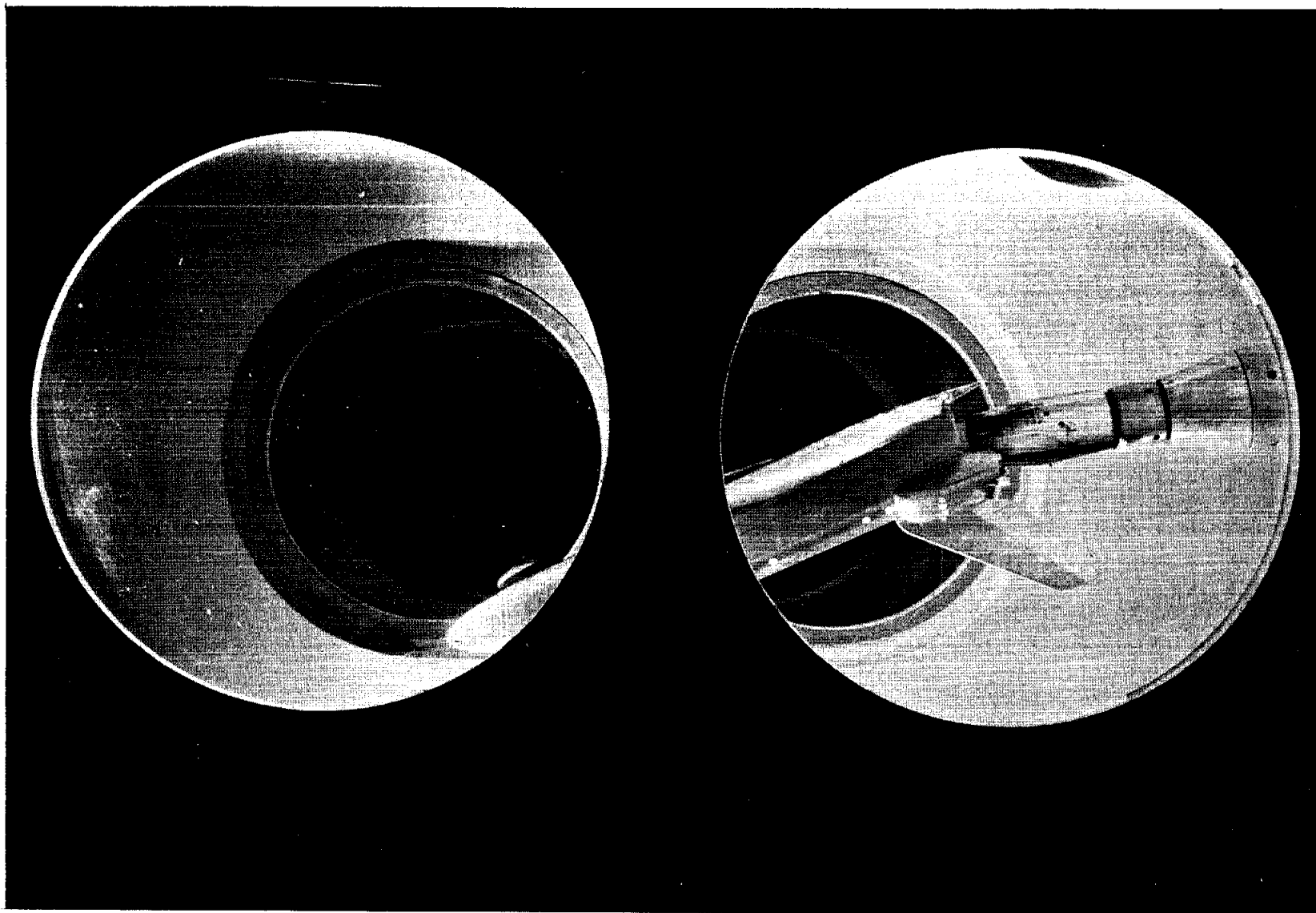


Figure 1. Model 60-0 Installed in VKF Tunnel B  
(Model Shown Inverted)

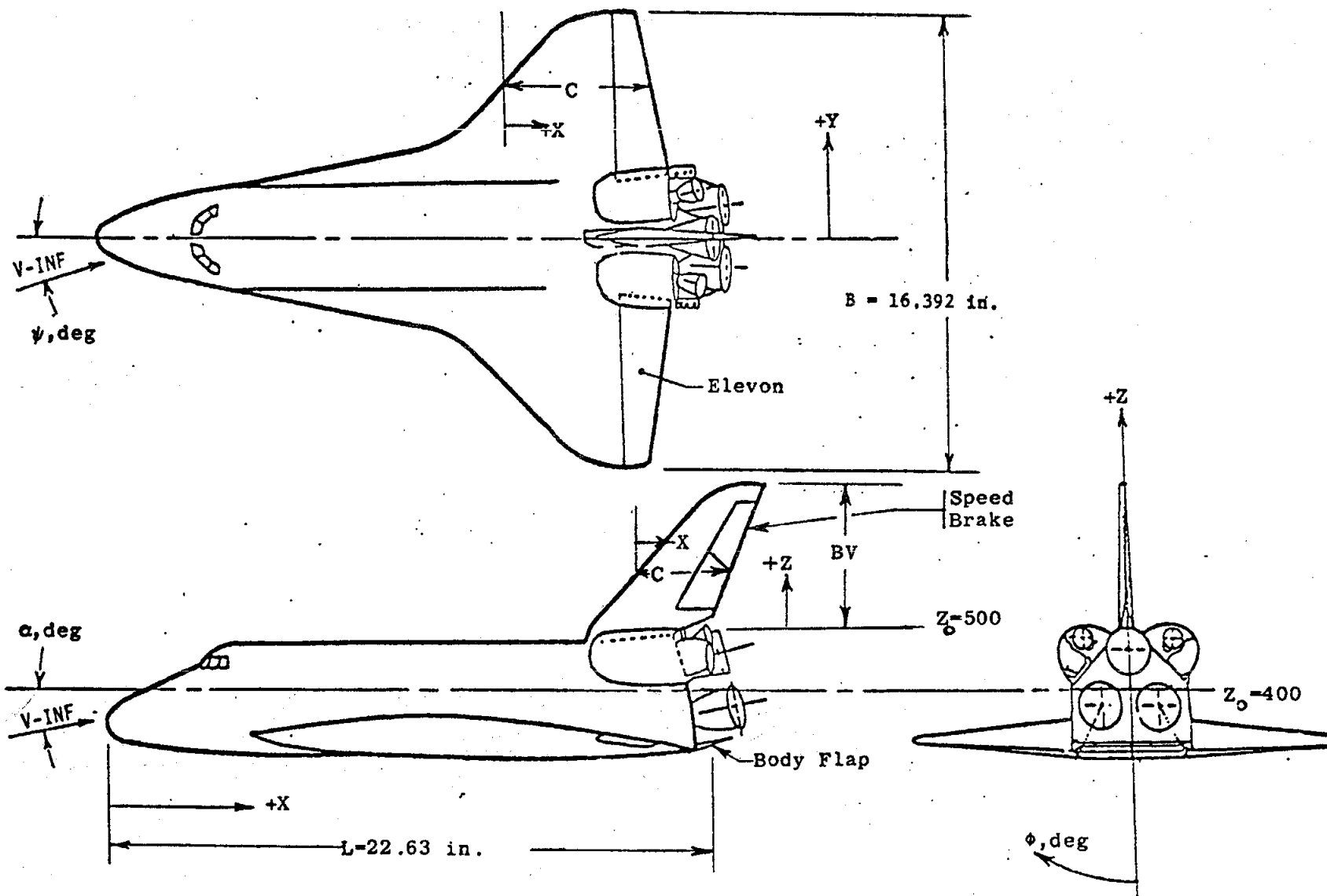


Figure 2. Sketch of the 0.0175-Scale Space Shuttle Orbiter Models



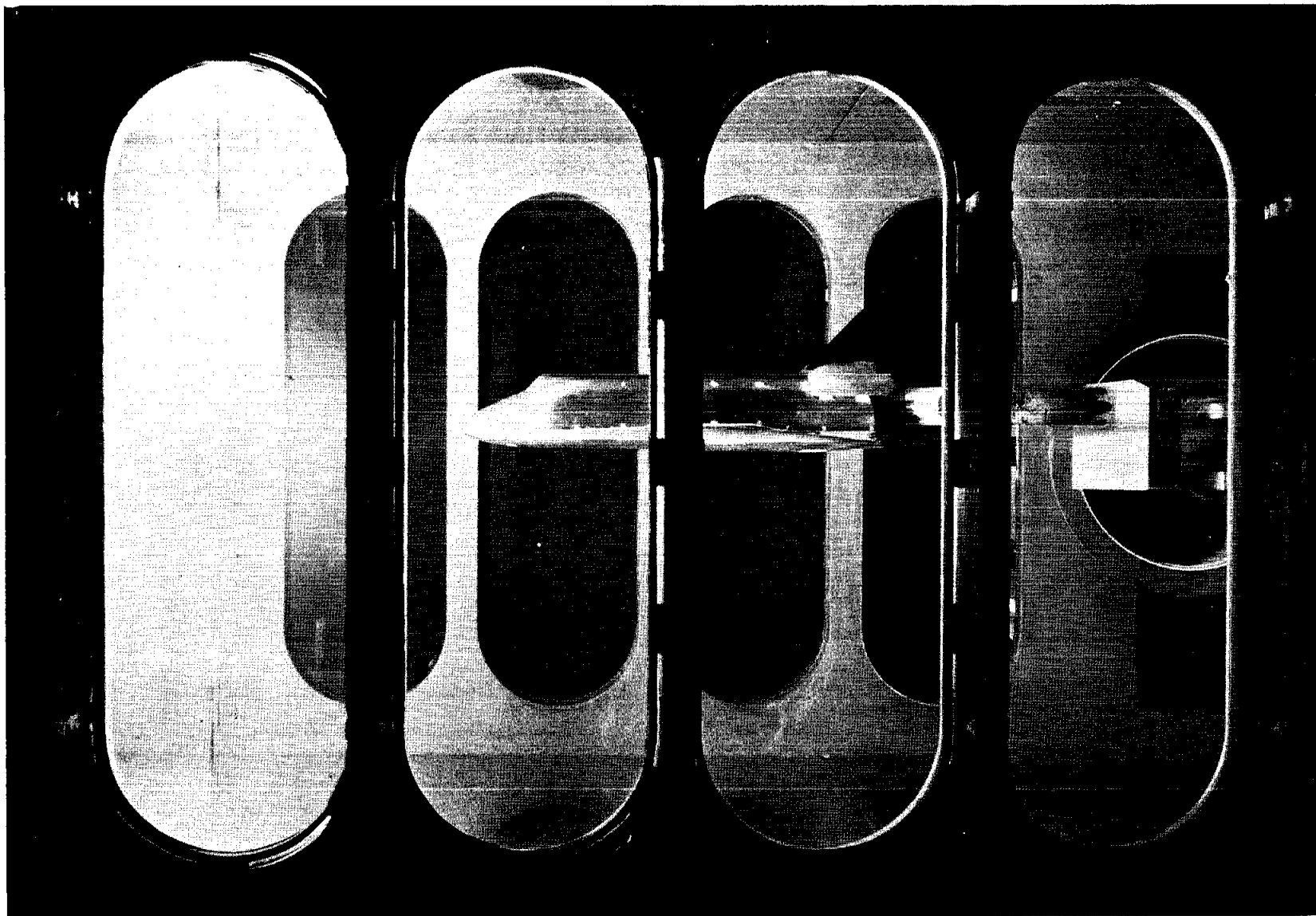


Figure 3. Model 56-0 Installed in VKF Tunnel A

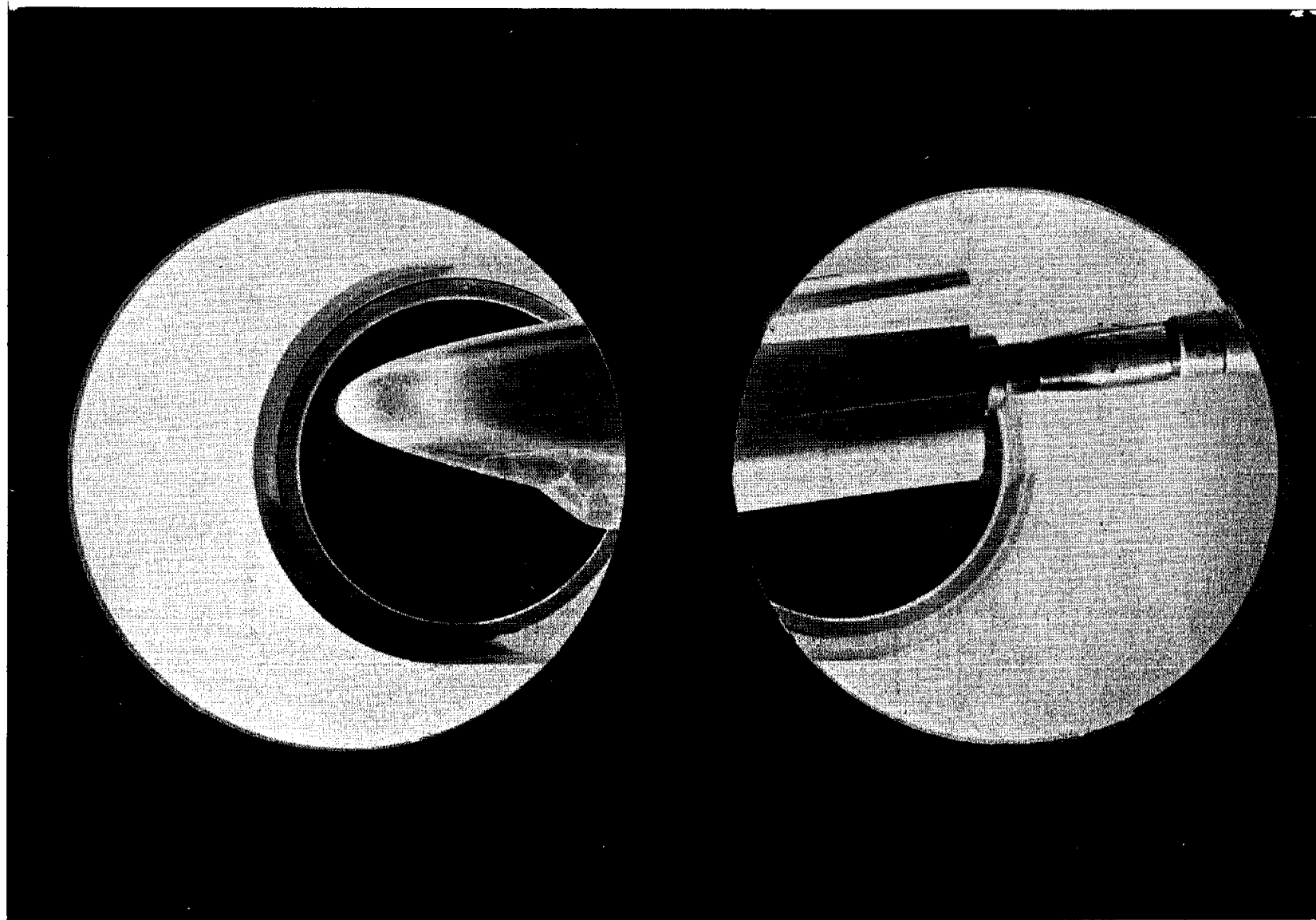


Figure 4. Model 83-0 Installed in VKF Tunnel B  
(Model Shown Inverted)

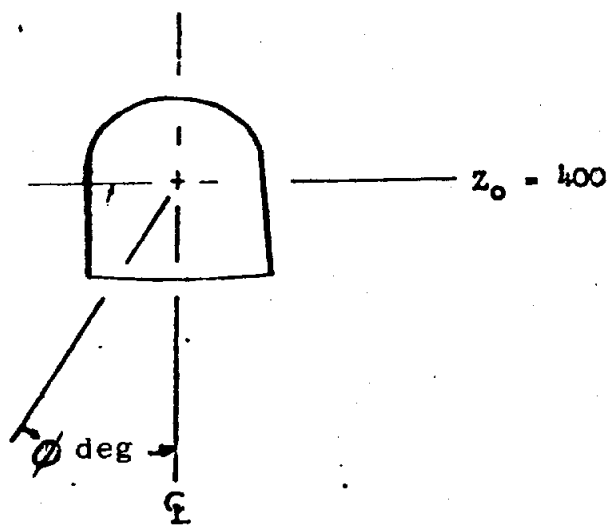
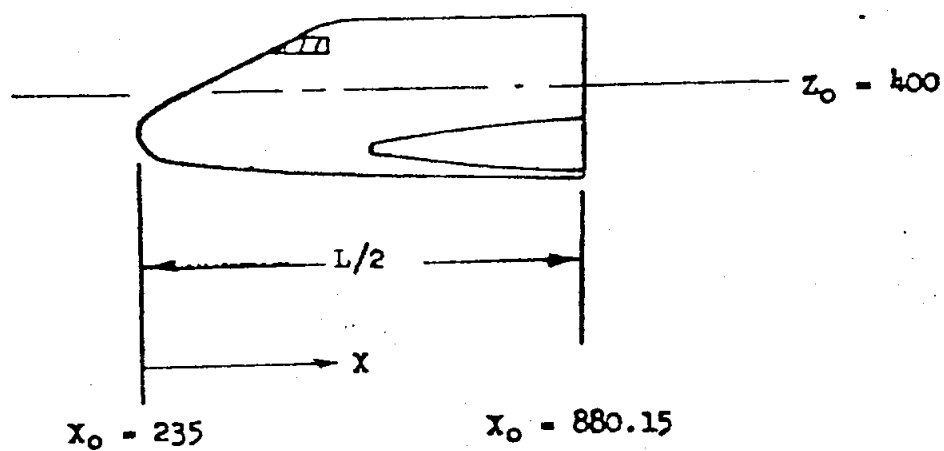


Figure 5. Sketch of 83-0 Model Coordinate System

# 50-INCH HYPERSONIC TUNNELS B&C

SCALE-1/5

TUNNEL WALL

MAX. FWD. PT.  
STA. 69.673

FWD C.R.  
STA. 59.673

STA. 55.923

NOM C.R.  
STA. 45.673

STA. 35.423

AFT C.R.  
STA. 29.673

ROLL HUB  
STA. 0.00

1.06-2-11-052

1.06-2-02-008

1.06-2-32-010

1.06-2-32-008

1.06-2-31-021

1.10-2-22-003

$\alpha = 20^\circ$

$\alpha = 40^\circ$

CR=6.0

$\alpha_{PL} = -37^\circ$

NASA/RI OH-84 B (V41B-67)

BASE STING  
60-4 MODEL

TUNNEL WALL

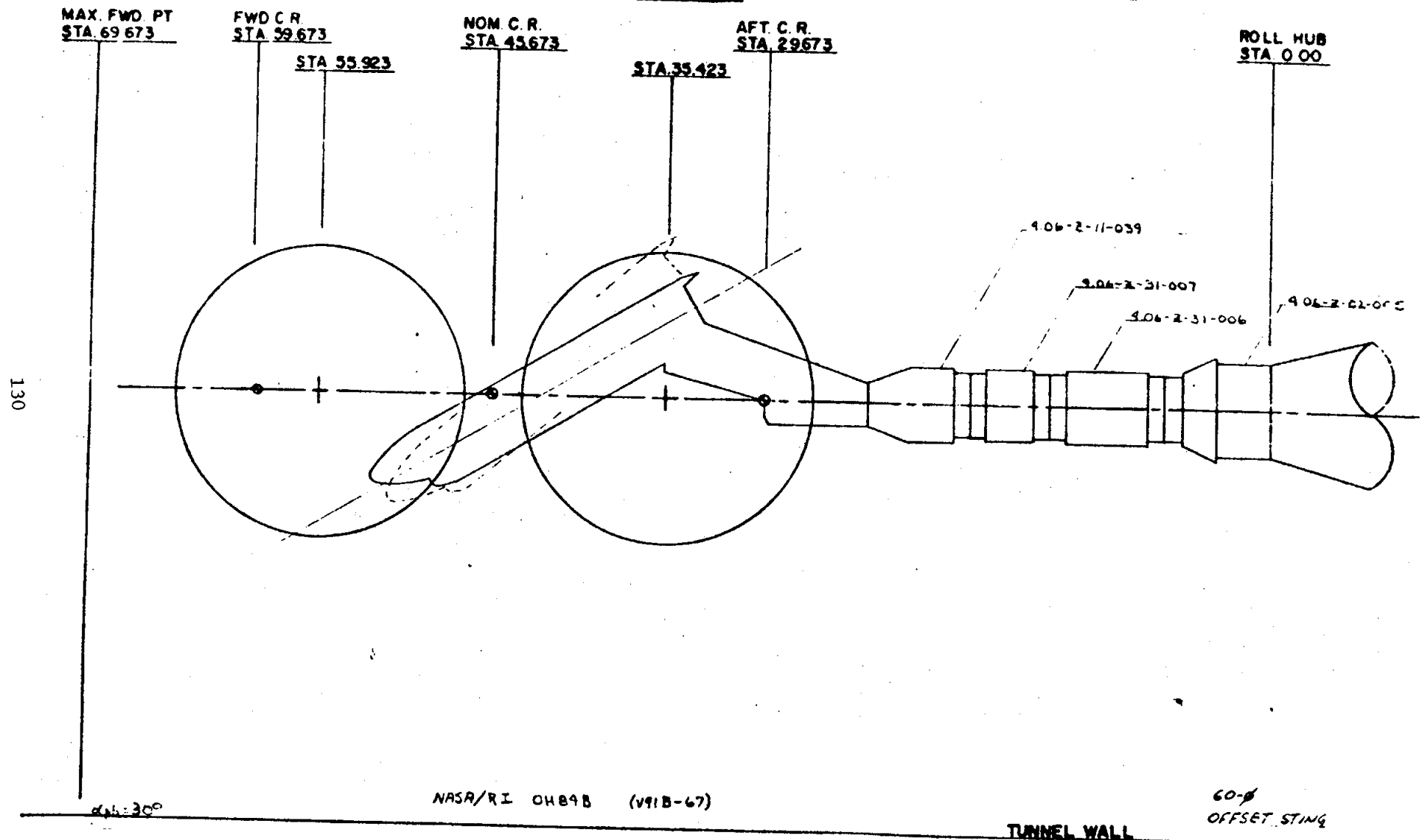
a. Configuration Code 10

Fig. 6 Installation Sketches of Model Configurations

# 50-INCH HYPERSONIC TUNNELS B5C

SCALE-1/3

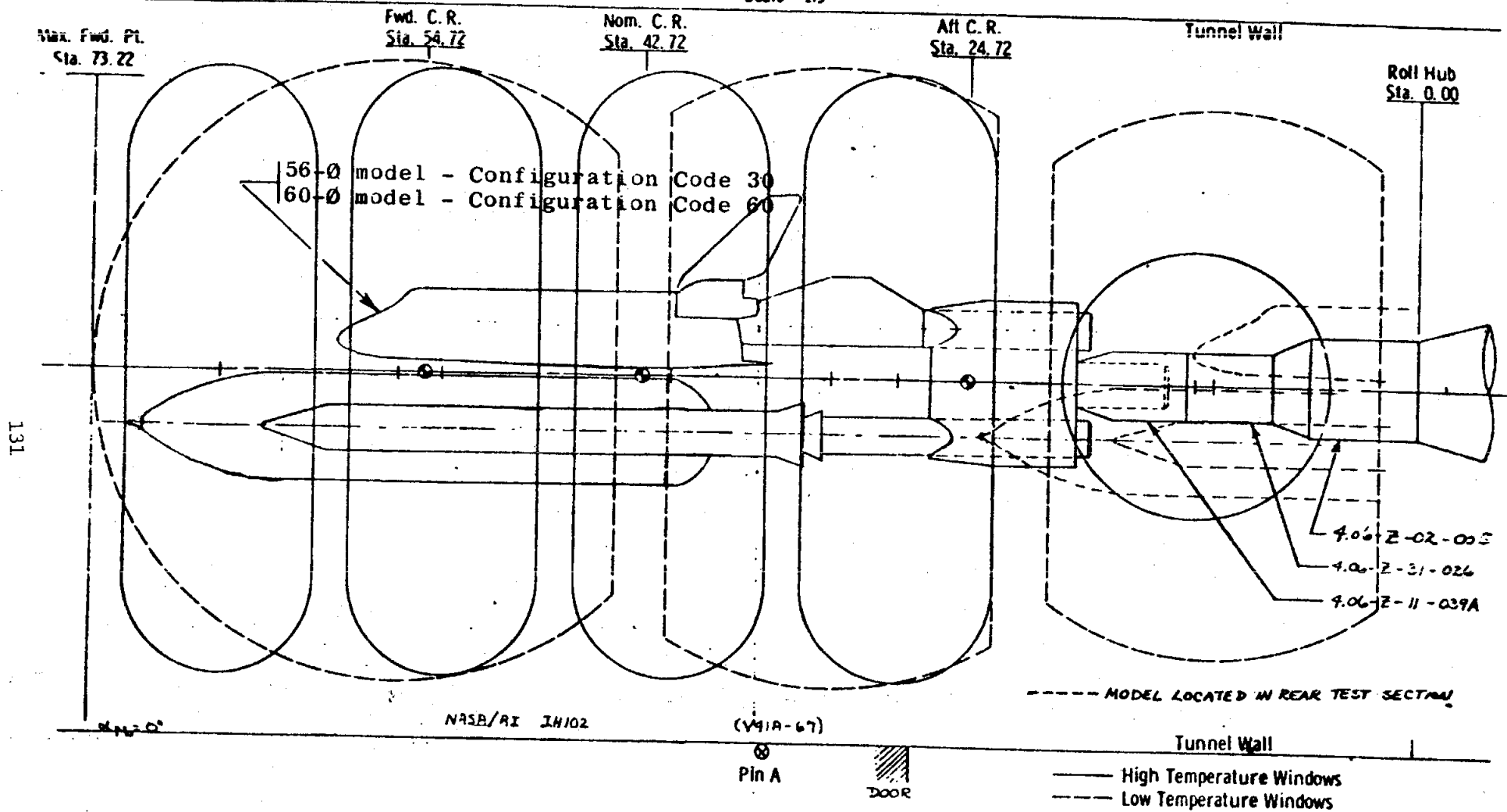
TUNNEL WALL



b. Configuration Code 20  
Fig. 6 Continued

# 40-INCH SUPERSONIC TUNNEL A

Scale - 1/5

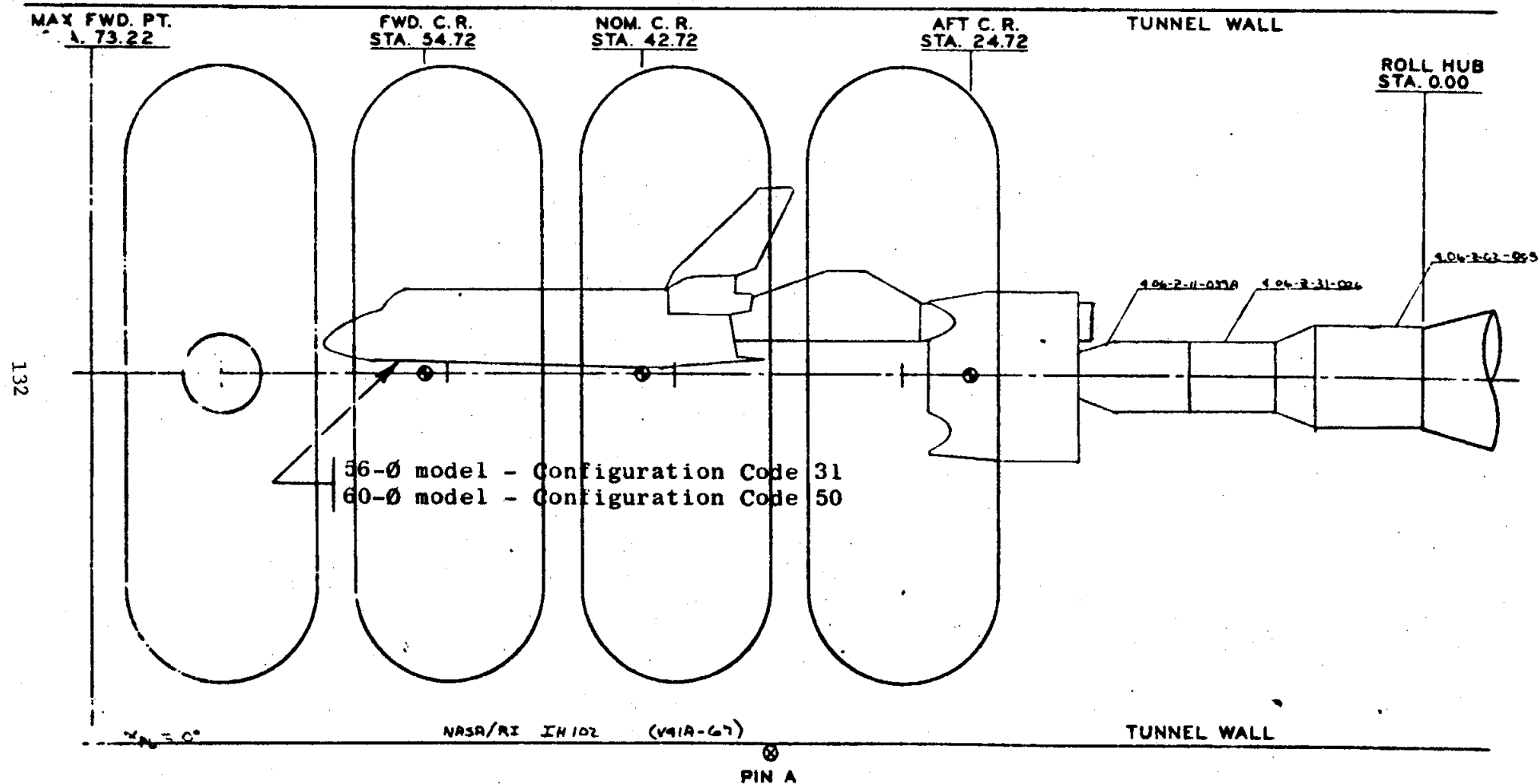


c. Configuration Codes 30 and 60

Fig.6 Continued

# 40-INCH SUPERSONIC TUNNEL A

SCALE - 1/3

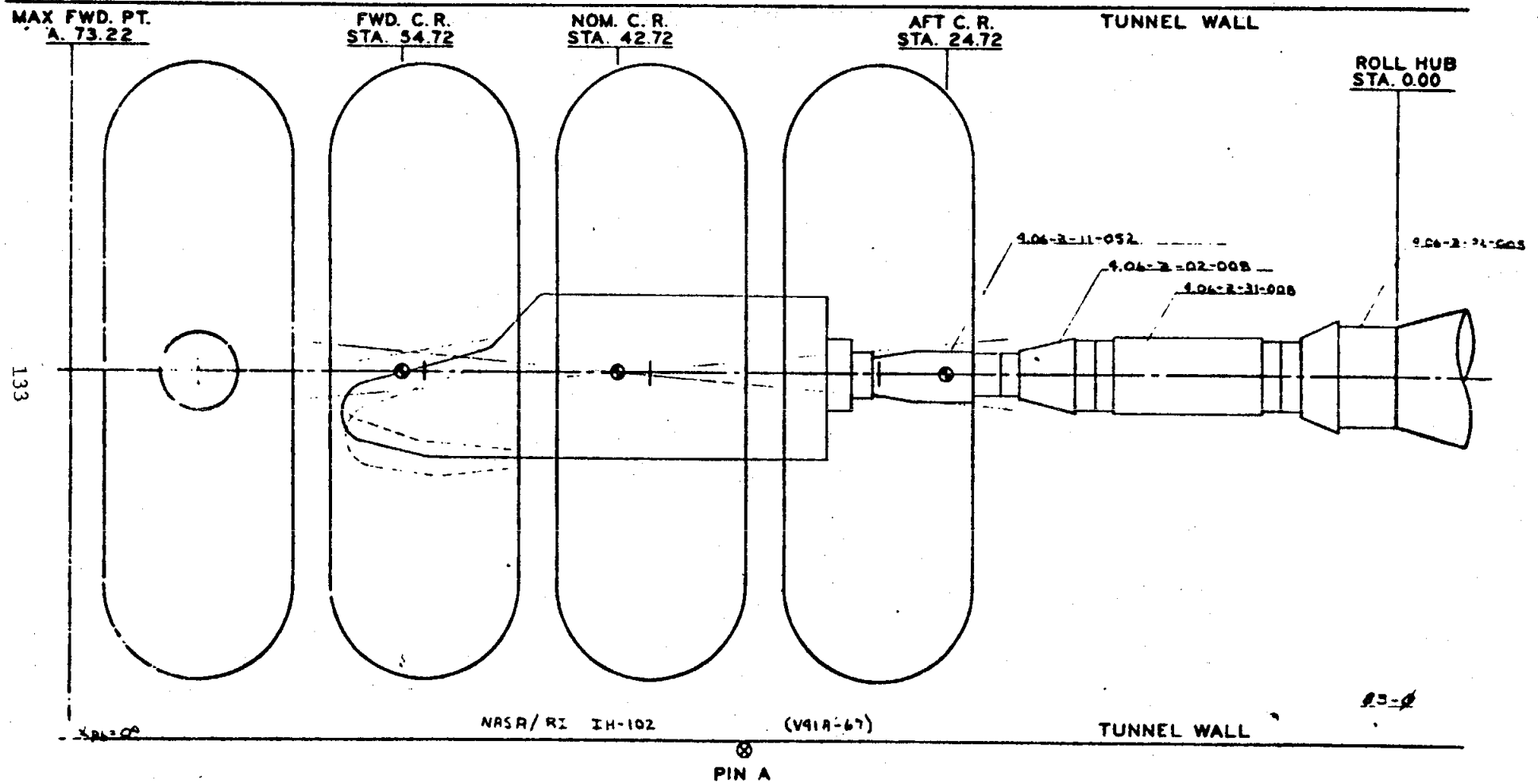


d. Configuration Codes 31 and 50

Fig. 6 Continued

# 40-INCH SUPERSONIC TUNNEL A

SCALE - 1/5

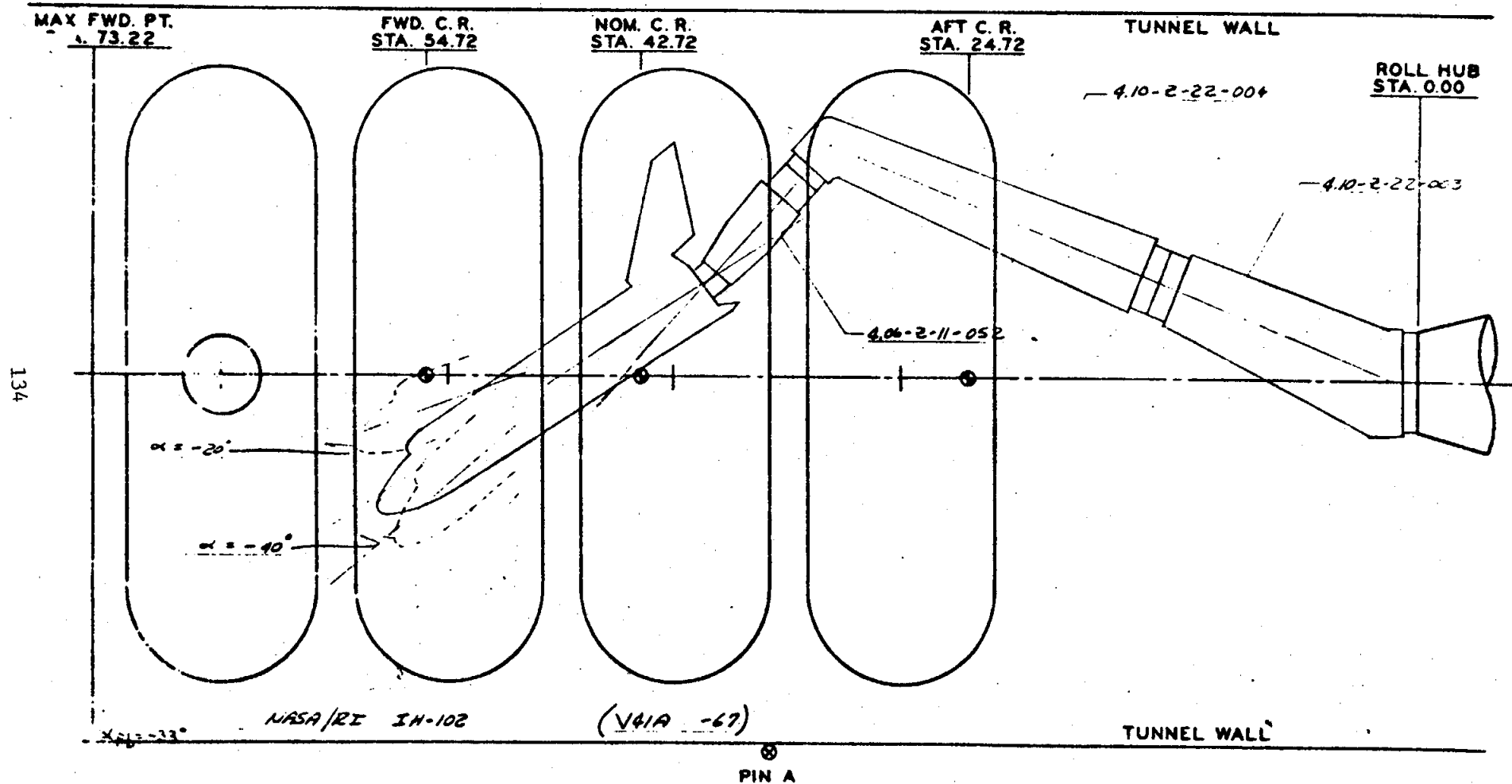


e. Configuration Code 40  
Fig. 6 Continued



# 40-INCH SUPERSONIC TUNNEL A

SCALE - 1/5



f. Configuration Code 51

Fig. 6 Continued

# 50-INCH HYPERSONIC TUNNELS B&C

SCALE-1/3

TUNNEL WALL

MAX. FWD PT  
STA 69 673

FWD C.R.  
STA 39 673

STA 35 923

NOM. C.R.  
STA 45 673

STA 35 423

AFT. C.R.  
STA 29 673

ROLL HUB  
STA 0 00

$\alpha = 0^\circ$

$\alpha = 20^\circ$

C.R.

4.04-2-11-052

4.04-2-01-008

4.04-2-32-010

4.04-2-32-008

4.04-2-31-021

4.10-2-21-003

135

$\alpha = -7^\circ$

NASA/RI

OH-105

(V41B-67)

60-# MODEL

TUNNEL WALL

g. Configuration Code 70

Fig. 6 Continued

# 50-INCH HYPERSONIC TUNNELS B&C

SCALE-1/3

TUNNEL WALL

MAX. FWD PT  
STA. 69 673

FWD C.R.  
STA. 59 673

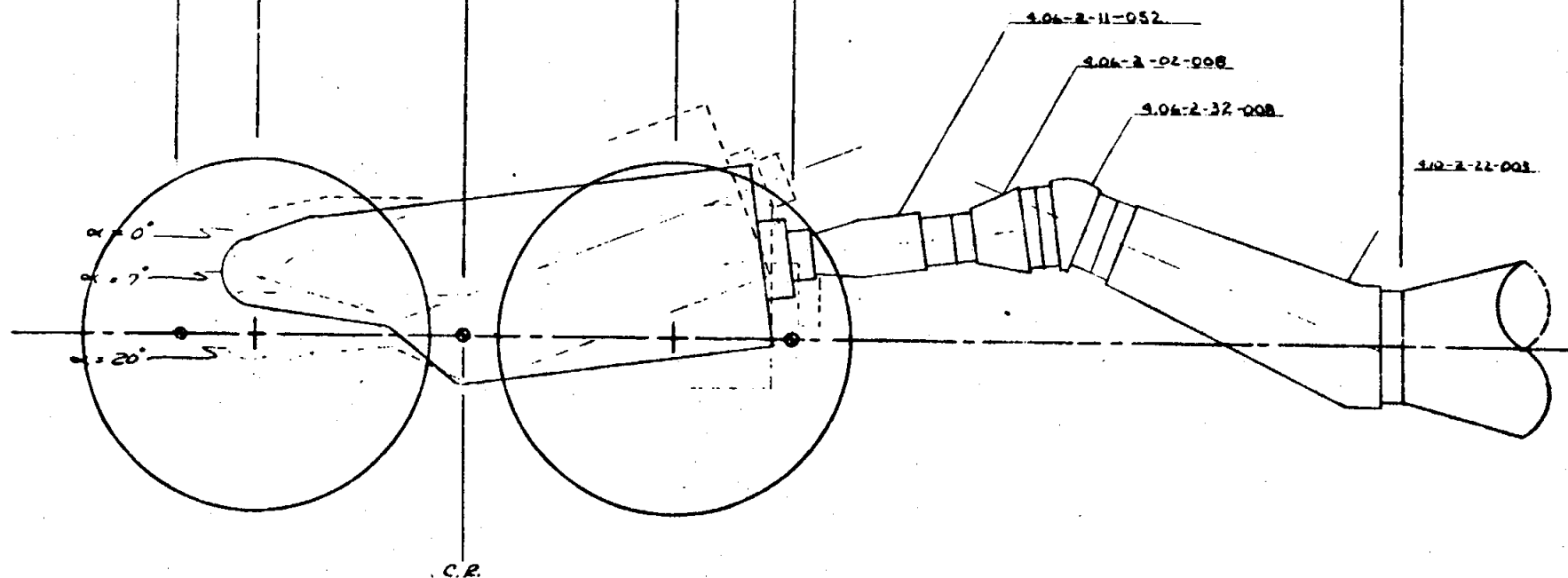
STA. 55 923

NOM C.R.  
STA. 45 673

STA. 35 423

AFT. C.R.  
STA. 29 673

ROLL HUB  
STA. 0 00



$\alpha = -7^\circ$

NASA/RI IH 102

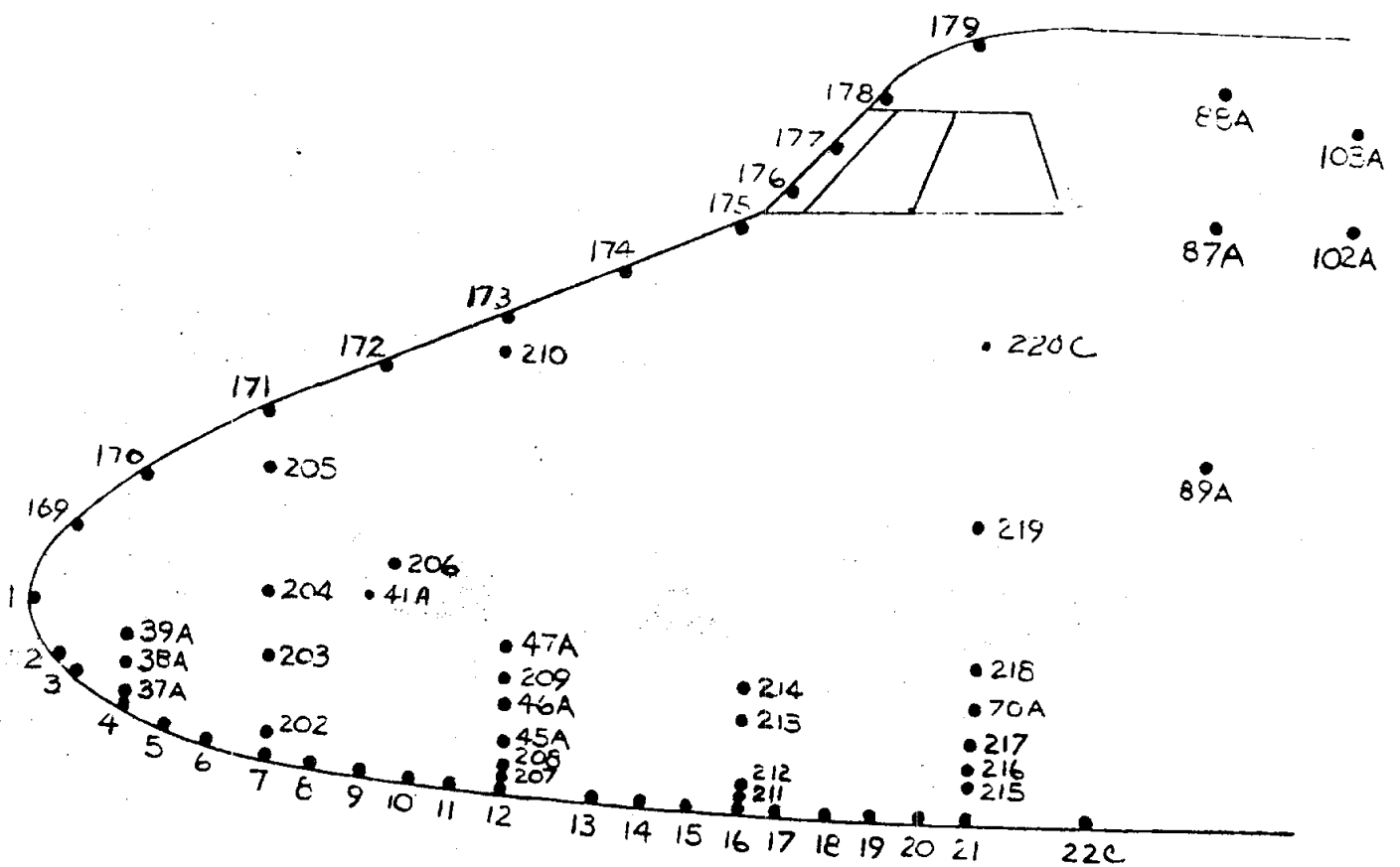
(VAIB-67)

TUNNEL WALL

83-0

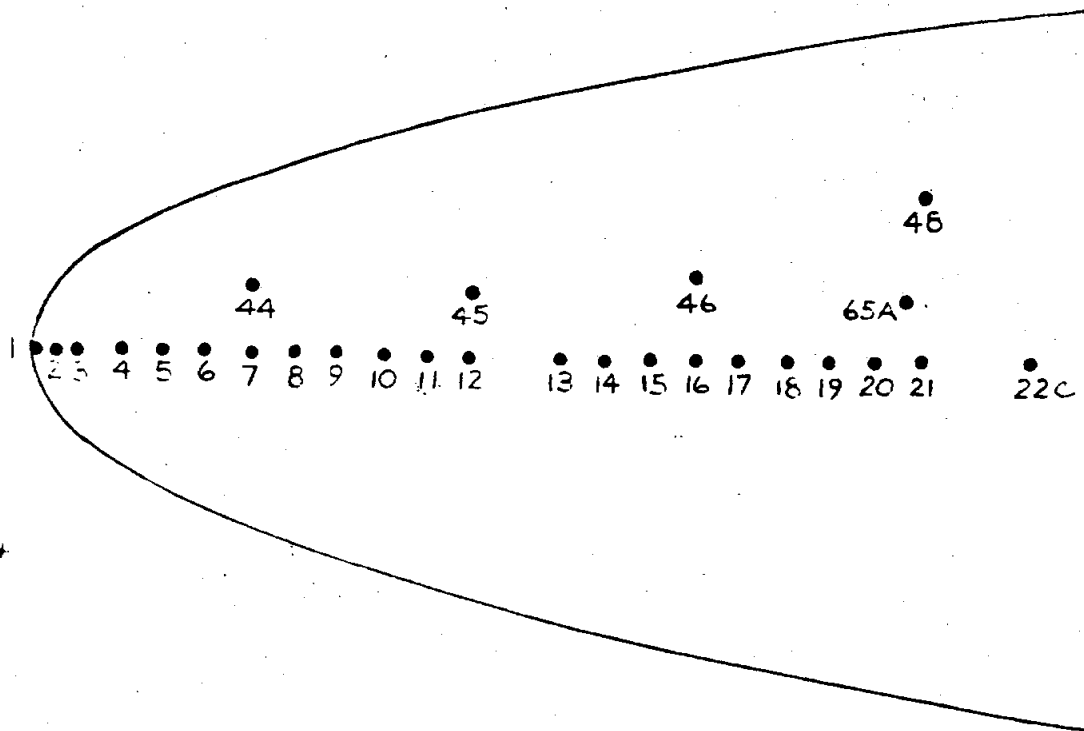
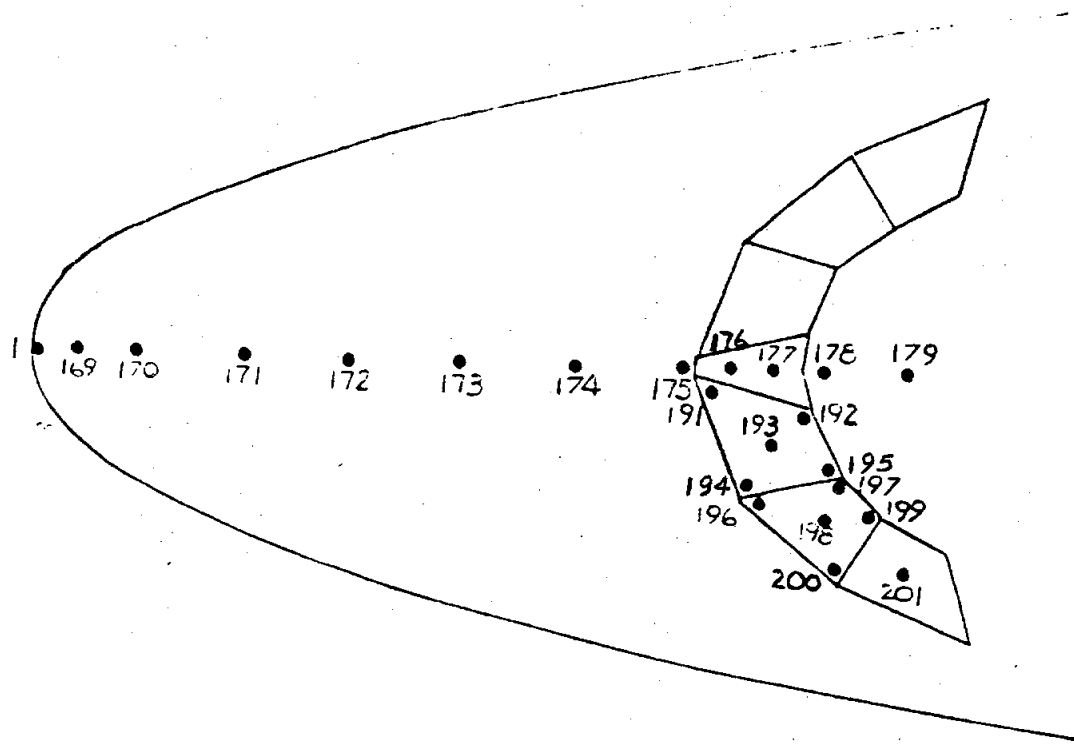
h. Configuration Code 80

Fig. 6 Concluded

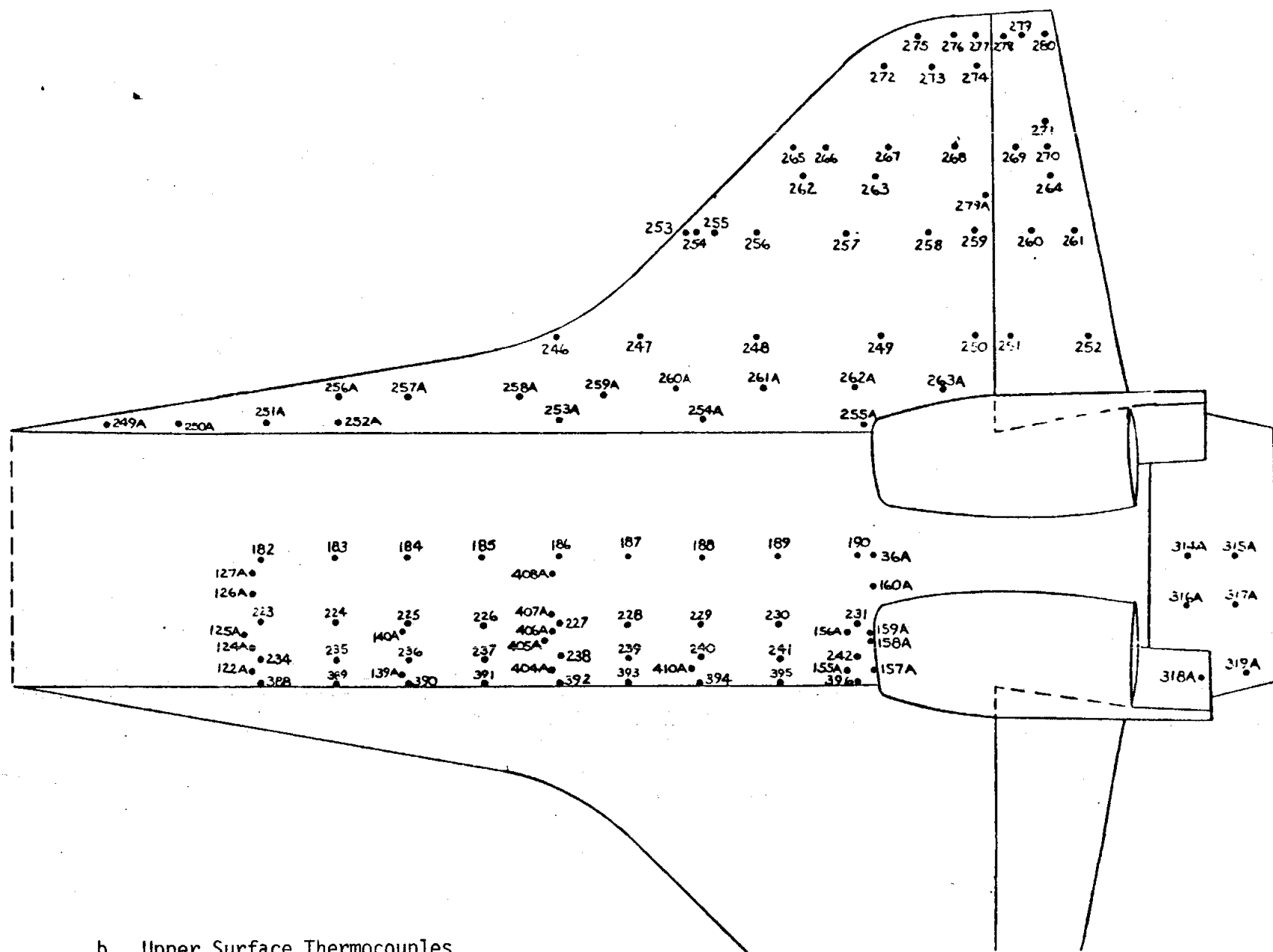


a. Nose and Canopy

Fig. 7 Thermocouple Locations on 60-Ø Model

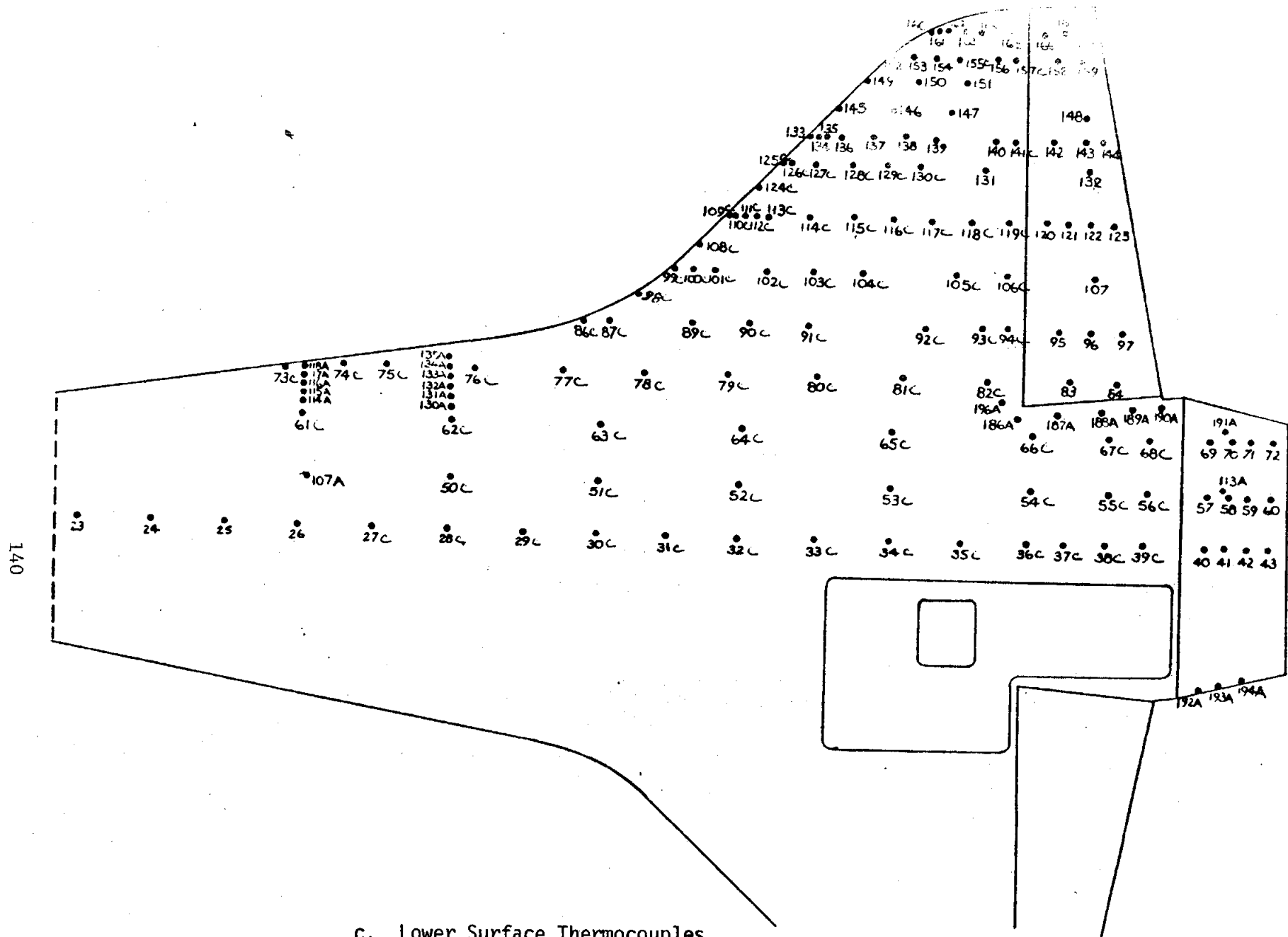


a. Nose and Canopy (Concluded)



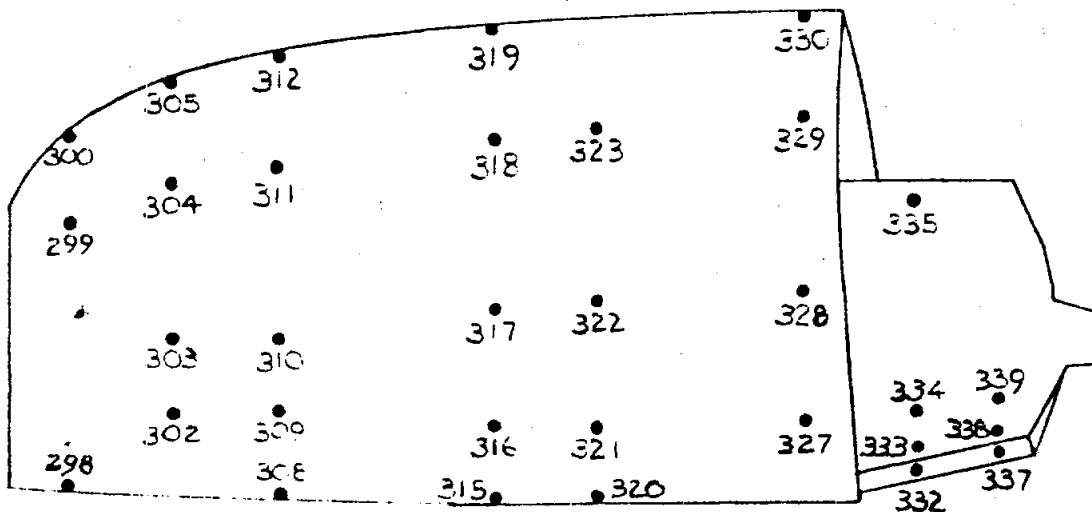
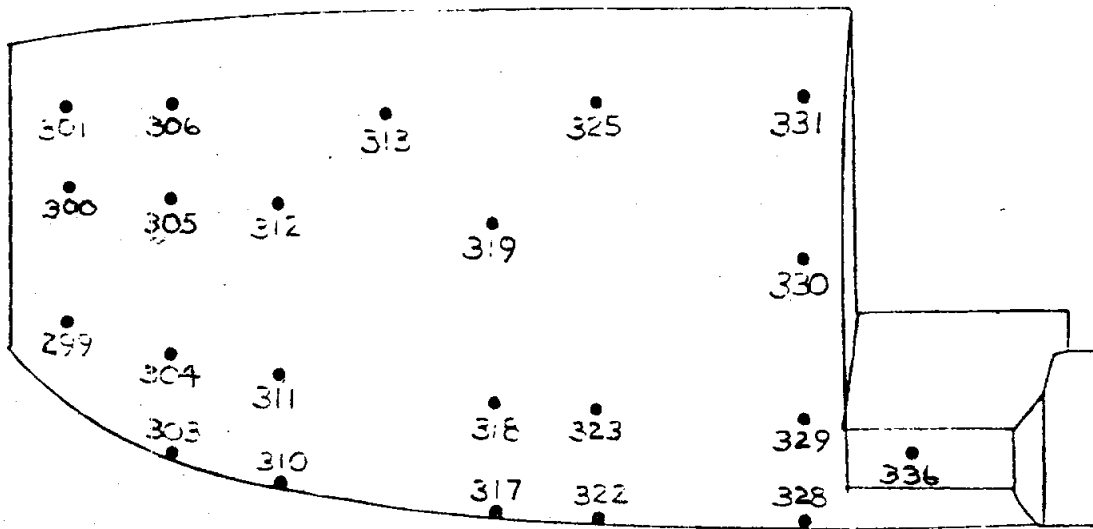
b. Upper Surface Thermocouples

Fig. 7. Continued



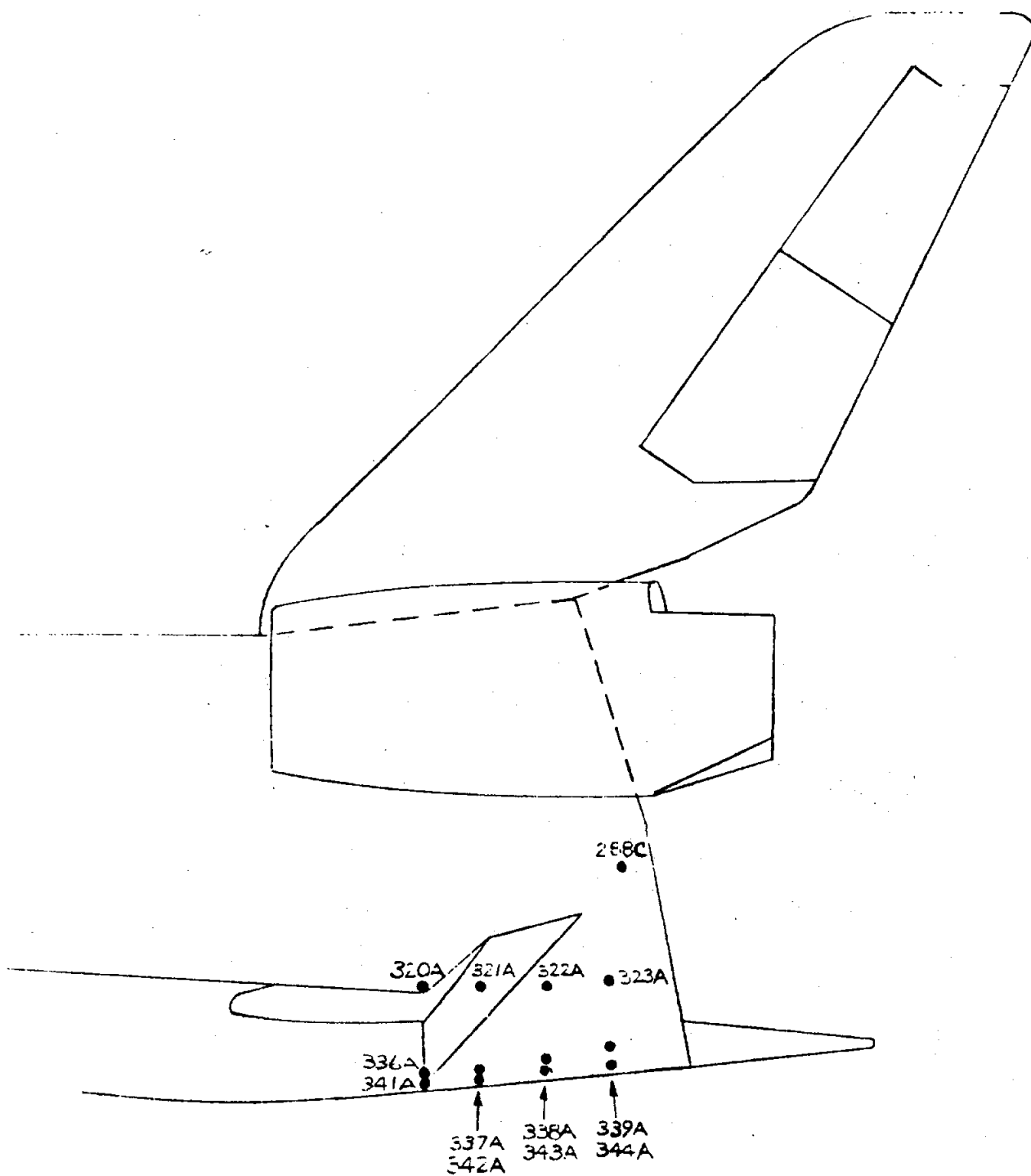
c. Lower Surface Thermocouples

Fig. 7 Continued

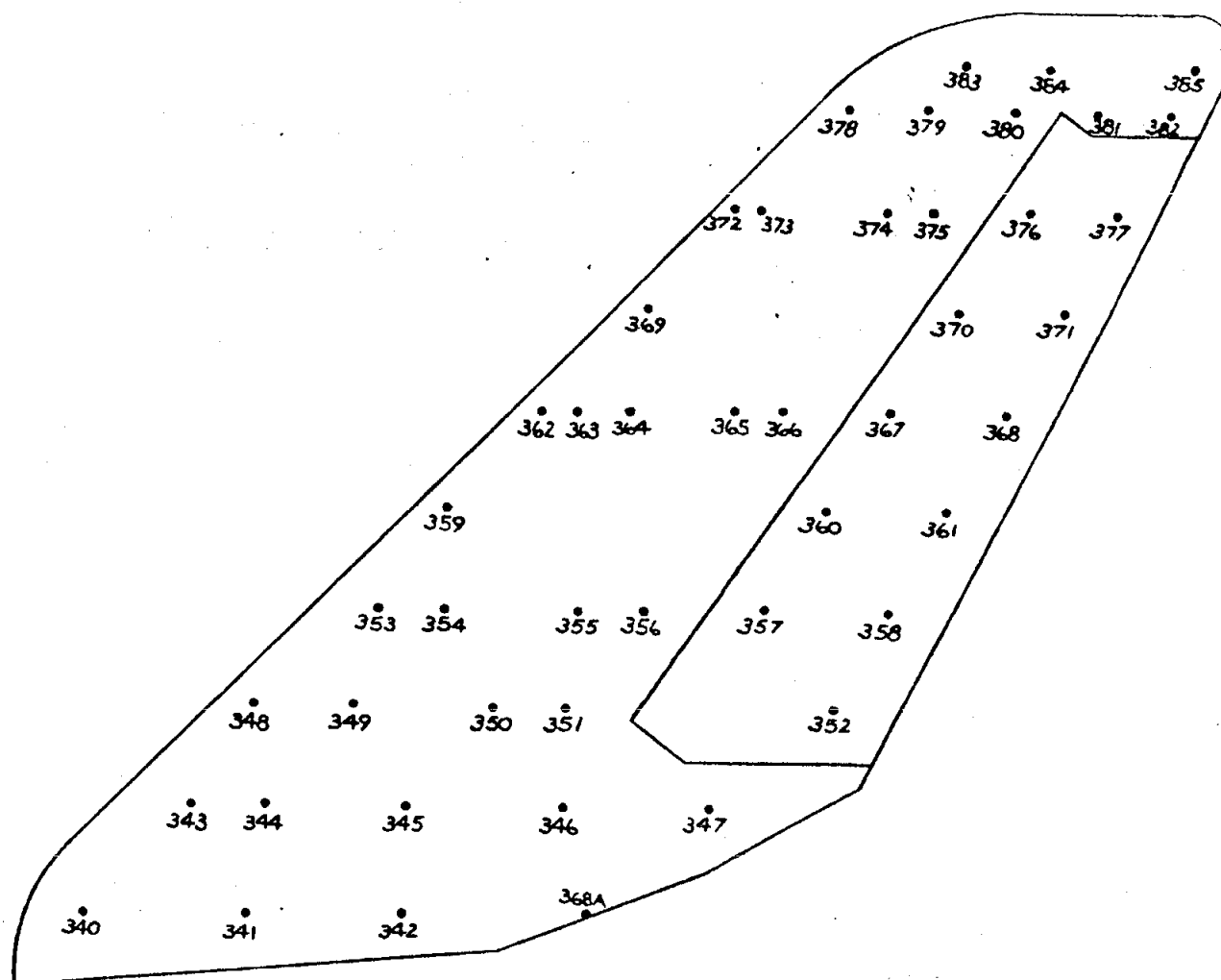


d. OMS Pod  
 Fig. 7 Continued  
 141



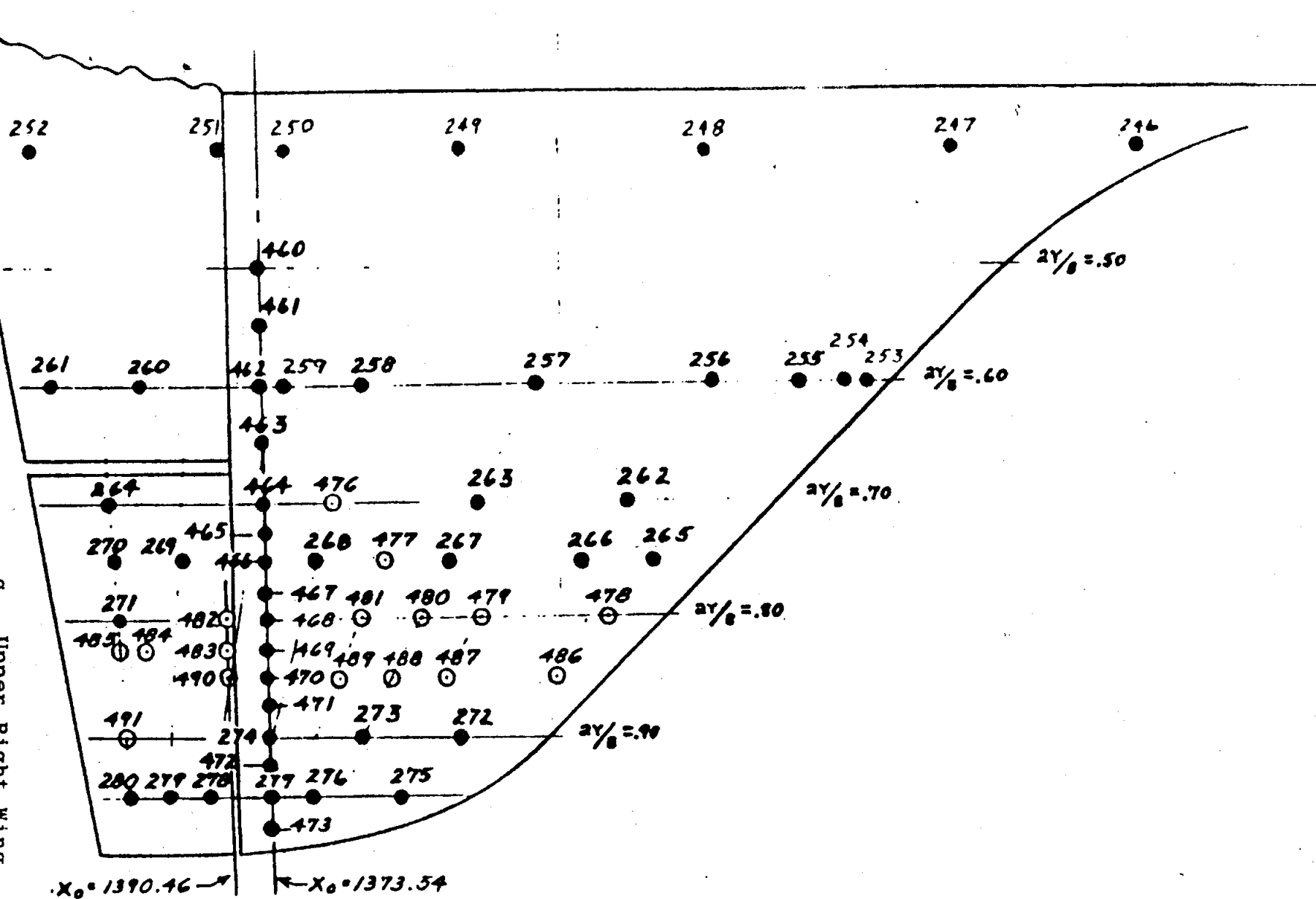


e. Aft Fuselage  
Fig. 7 Continued

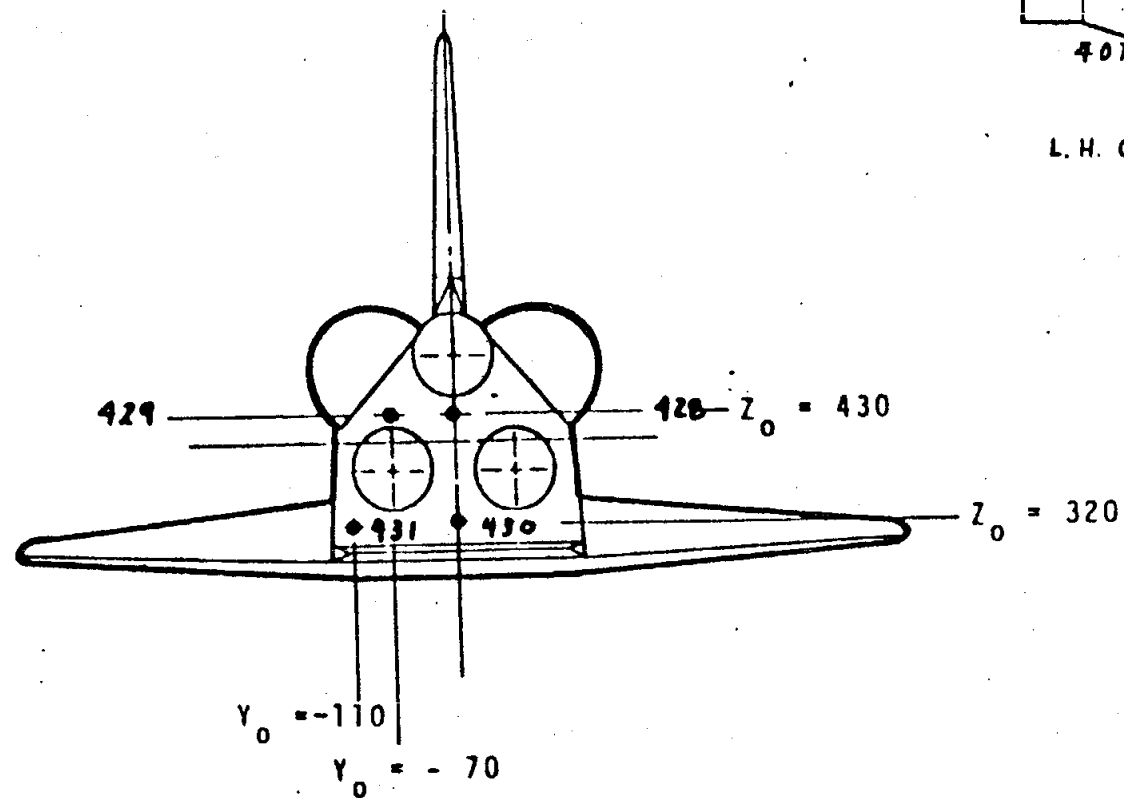


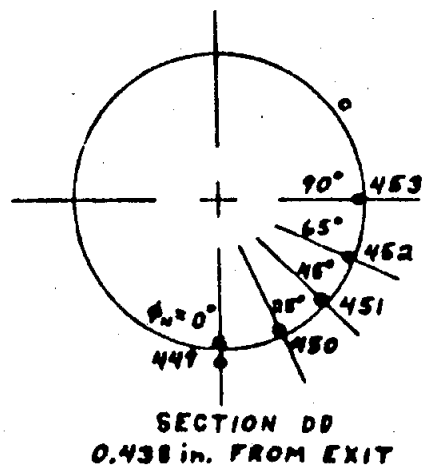
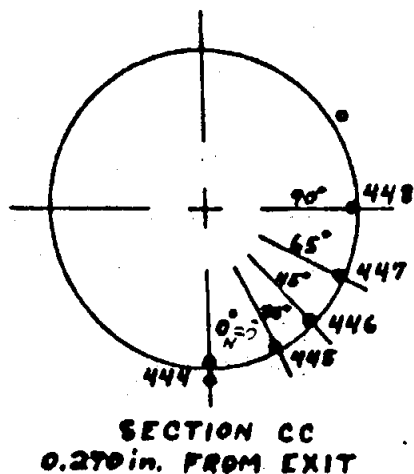
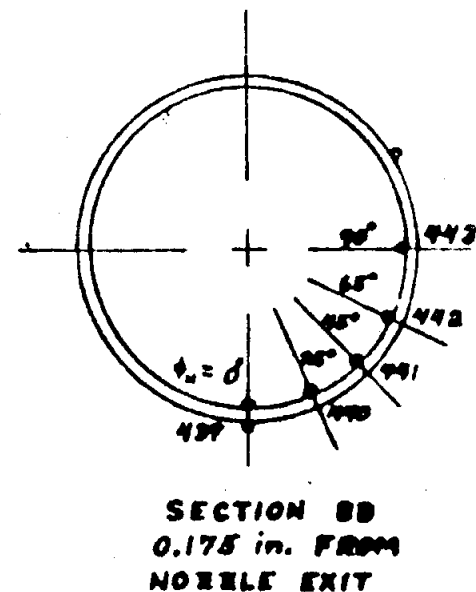
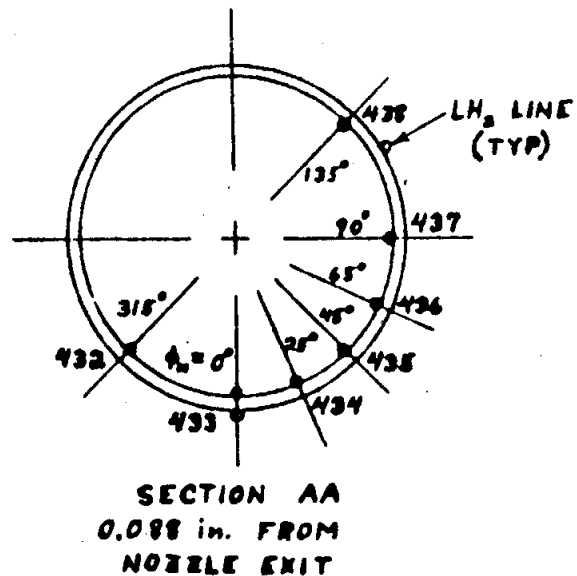
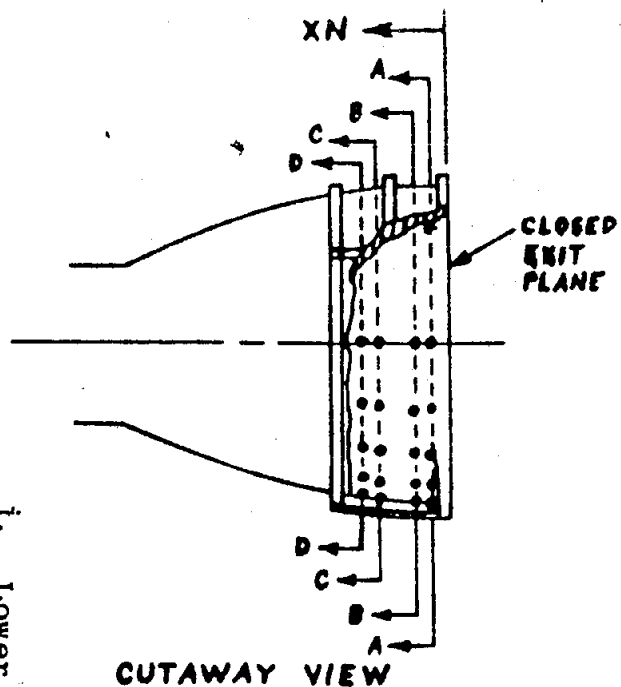
f. Vertical Tail  
Fig. 7 Continued

g. Upper Right Wing  
Fig. 7 Continued



h. Nozzle Base Plate  
Fig. 7 Continued





ALL DIMENSIONS IN INCHES (MODEL SCALE)

Lower Right SSME Nozzle  
FIG. 7 Concluded

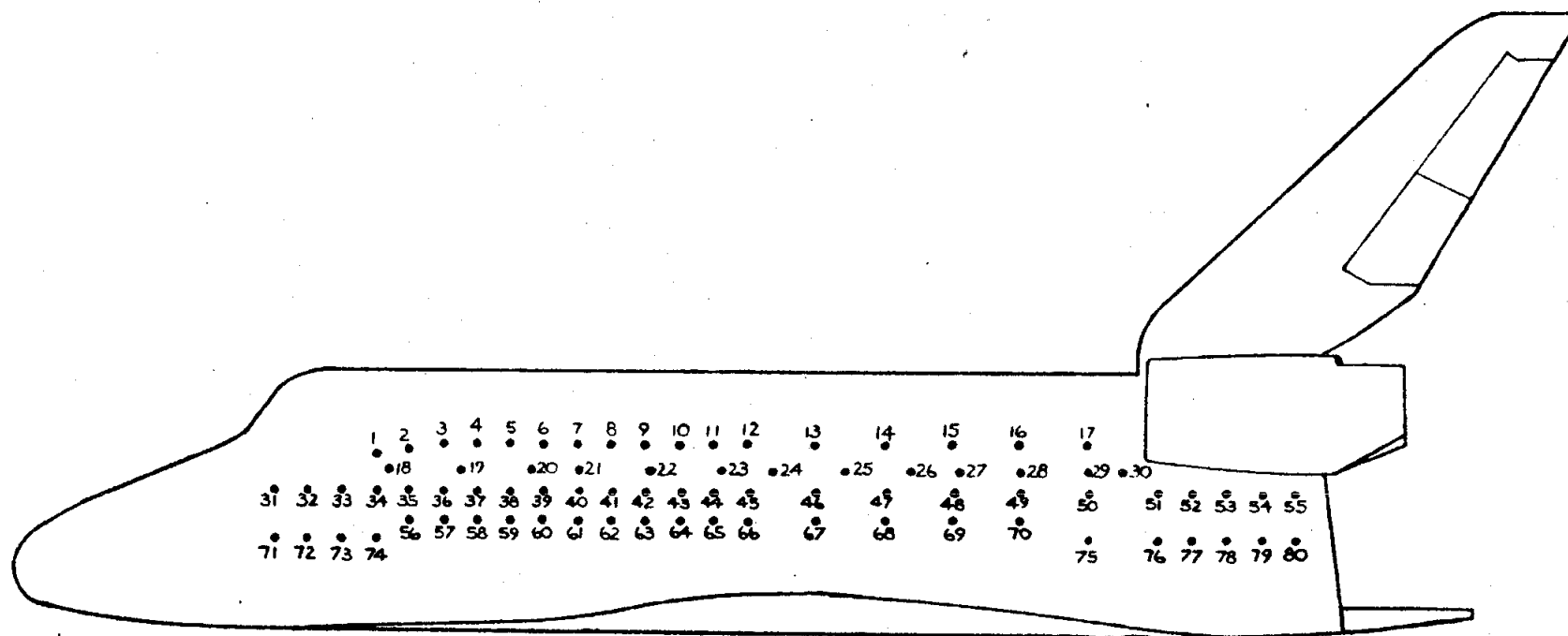
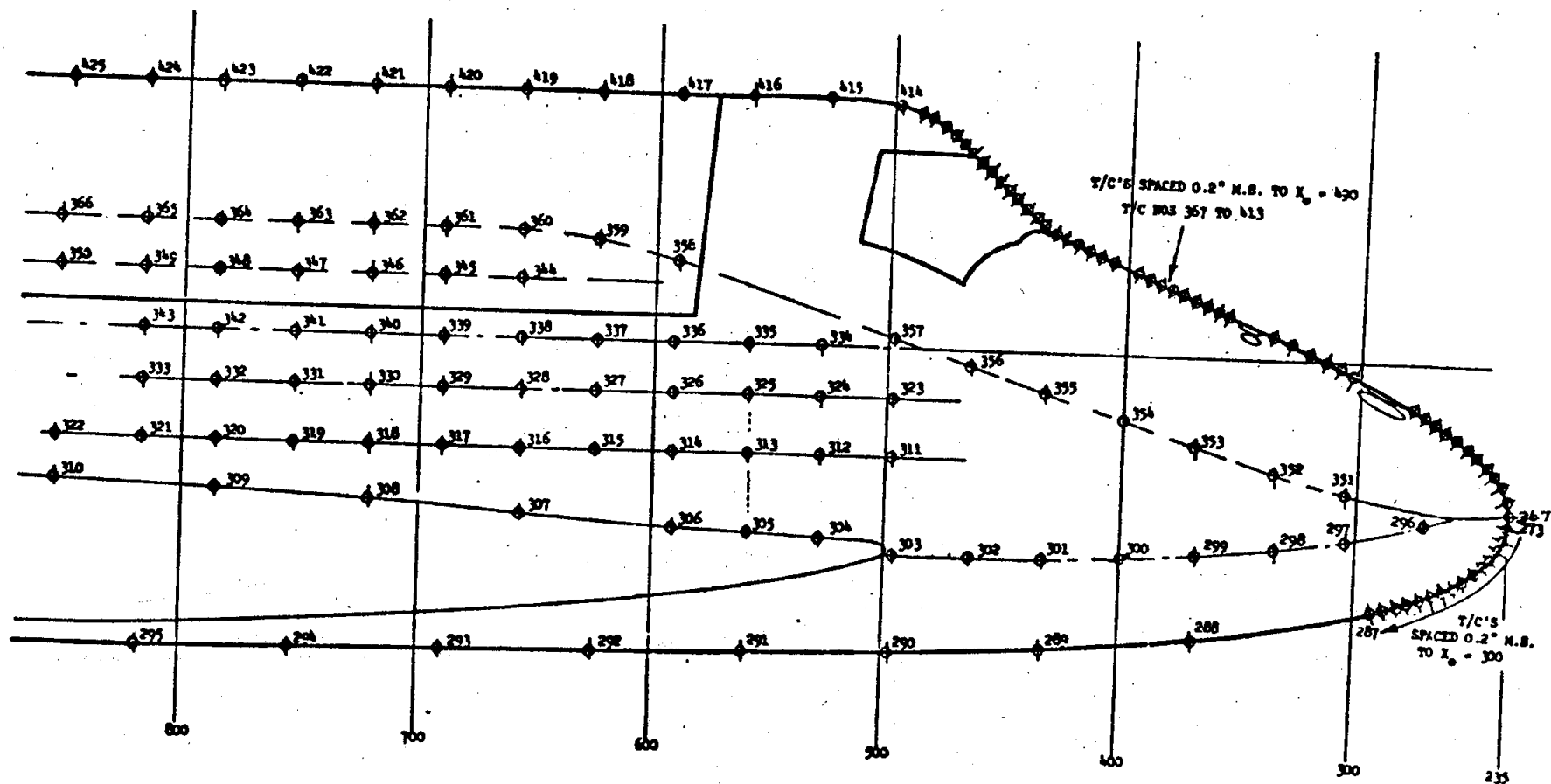
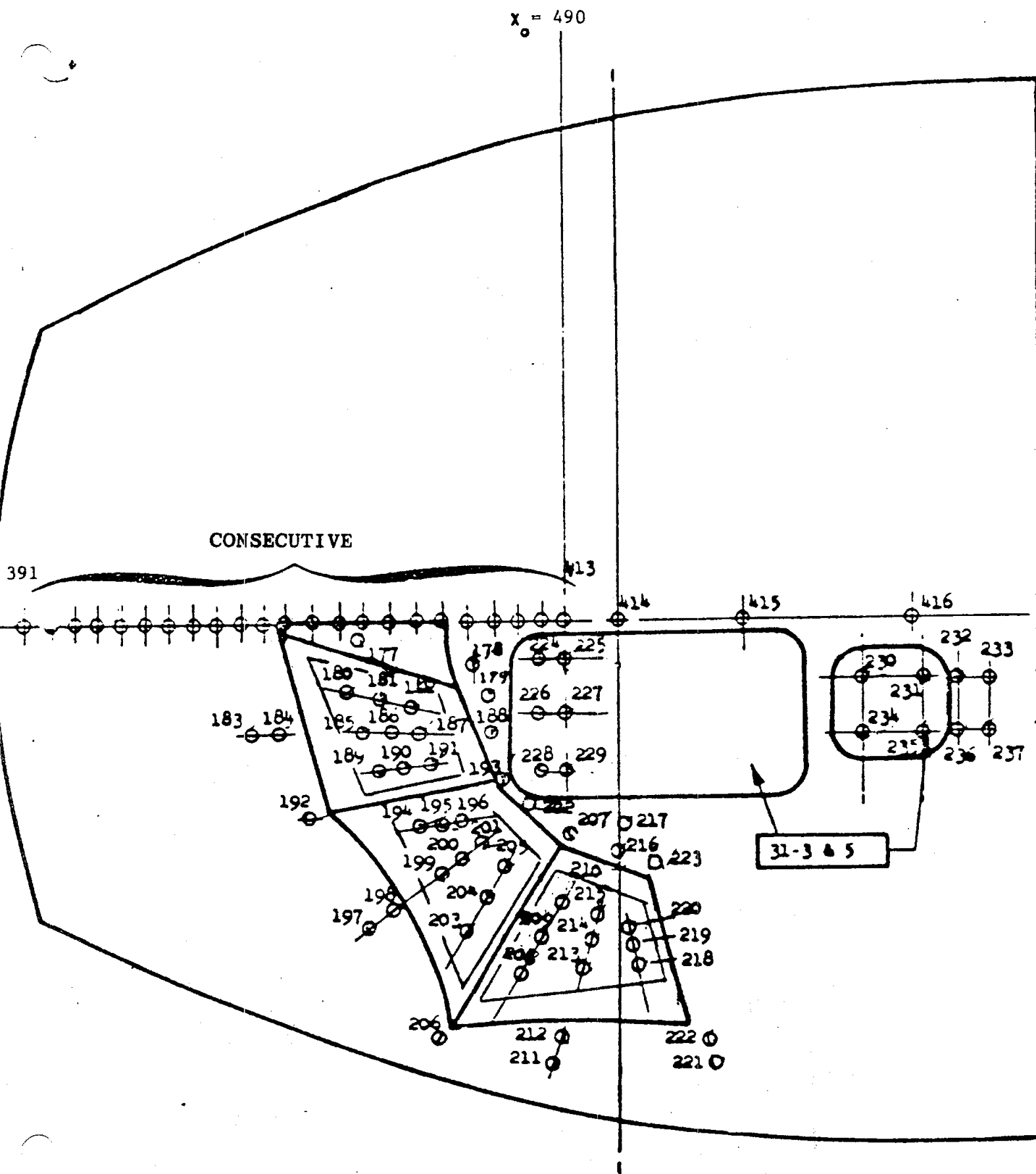


Fig. 8. Thermocouple Locations on 56-Ø Model

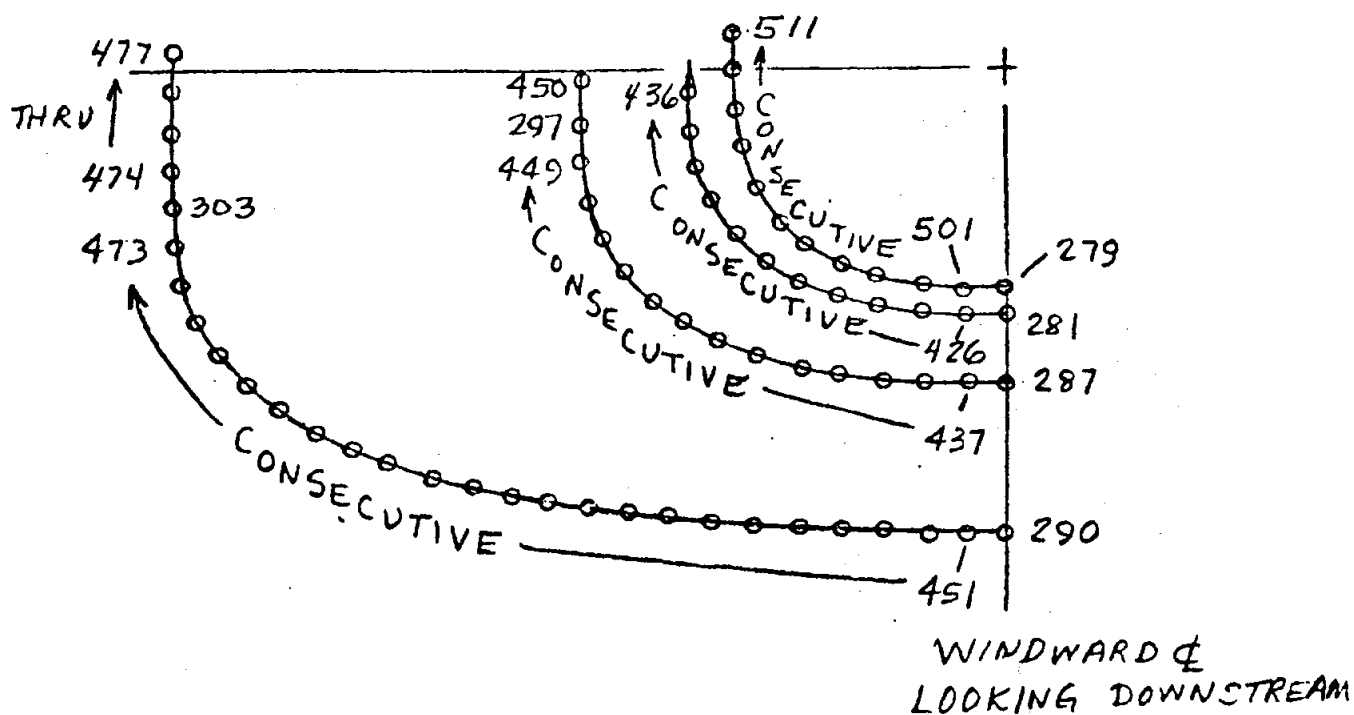
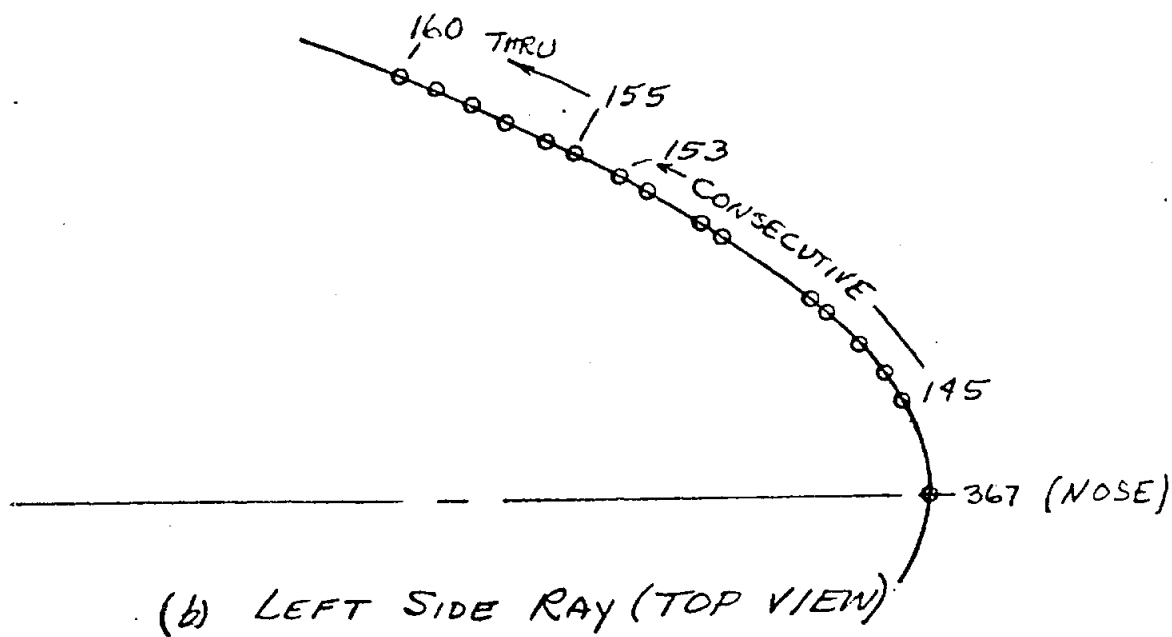


a. T/C Locations on Fuselage Right Side

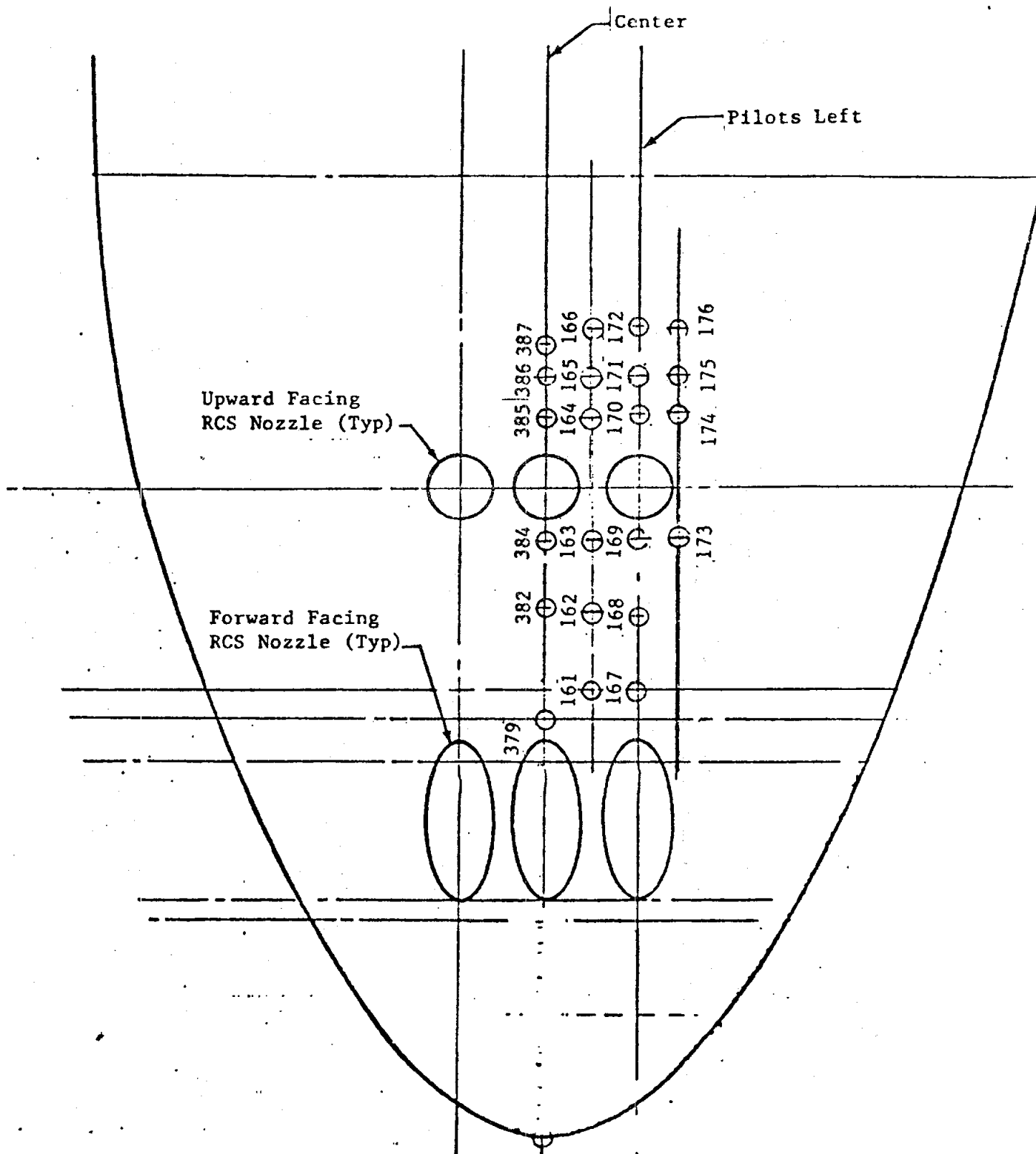
Fig. 9 Thermocouple Locations on 83-Ø Model



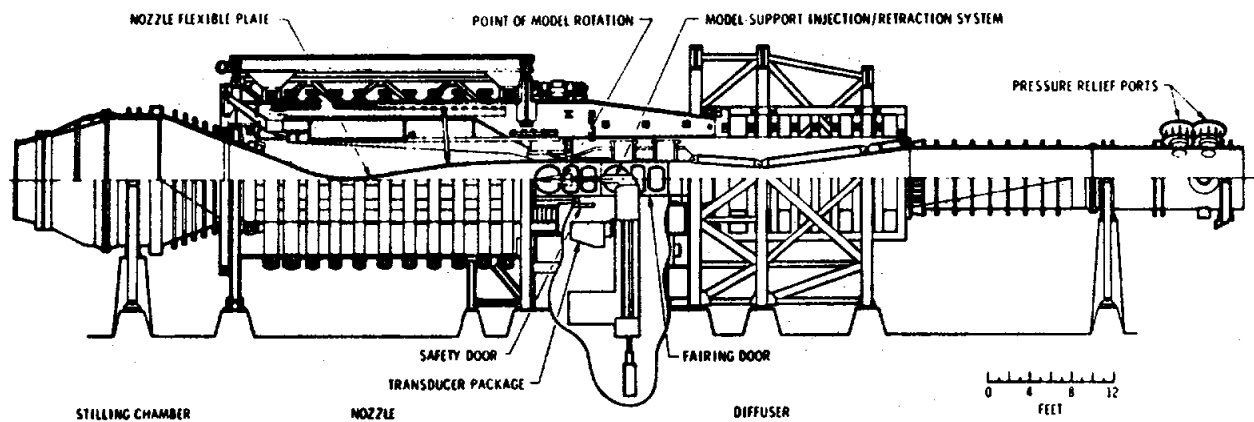




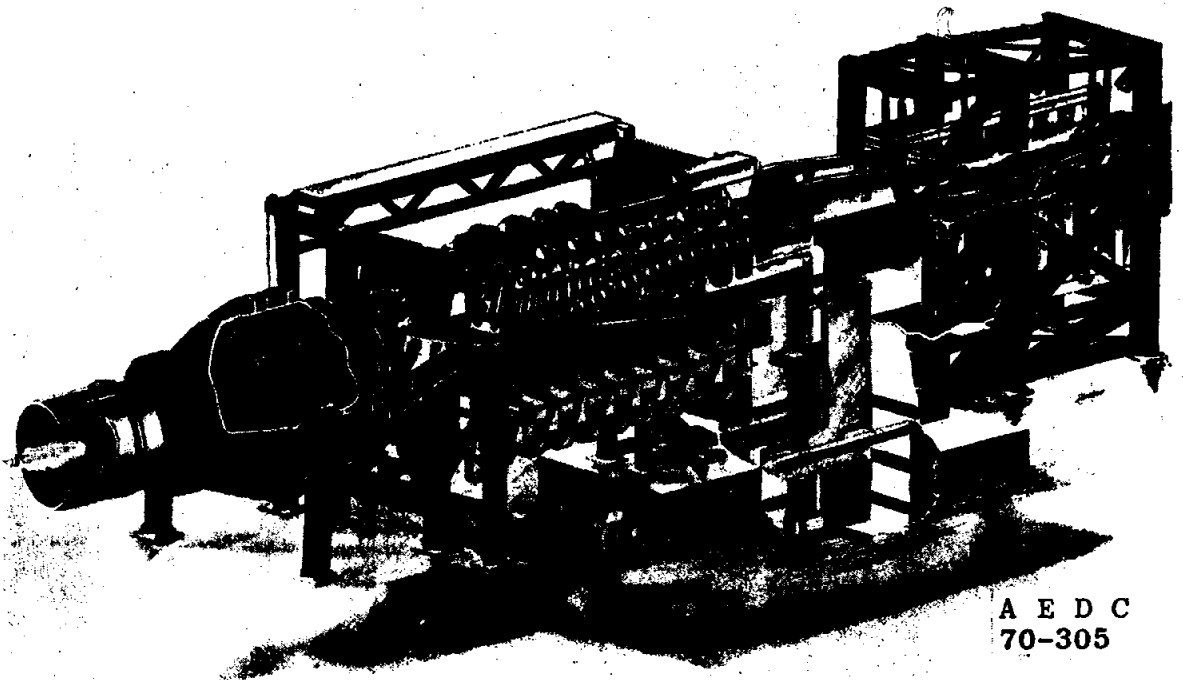
c. Radial Locations  
Fig. 9 Continued



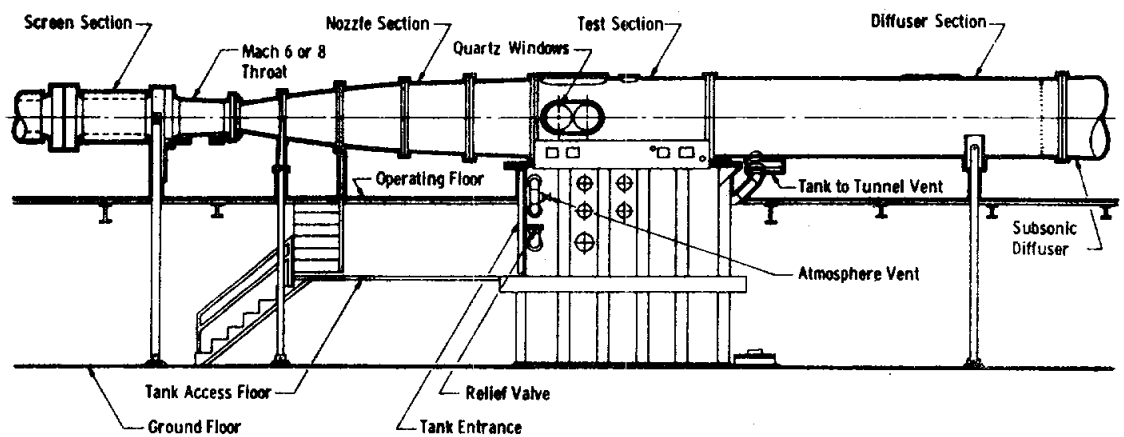
d. Upper Nose T/C Locations  
 Fig. 9 Concluded



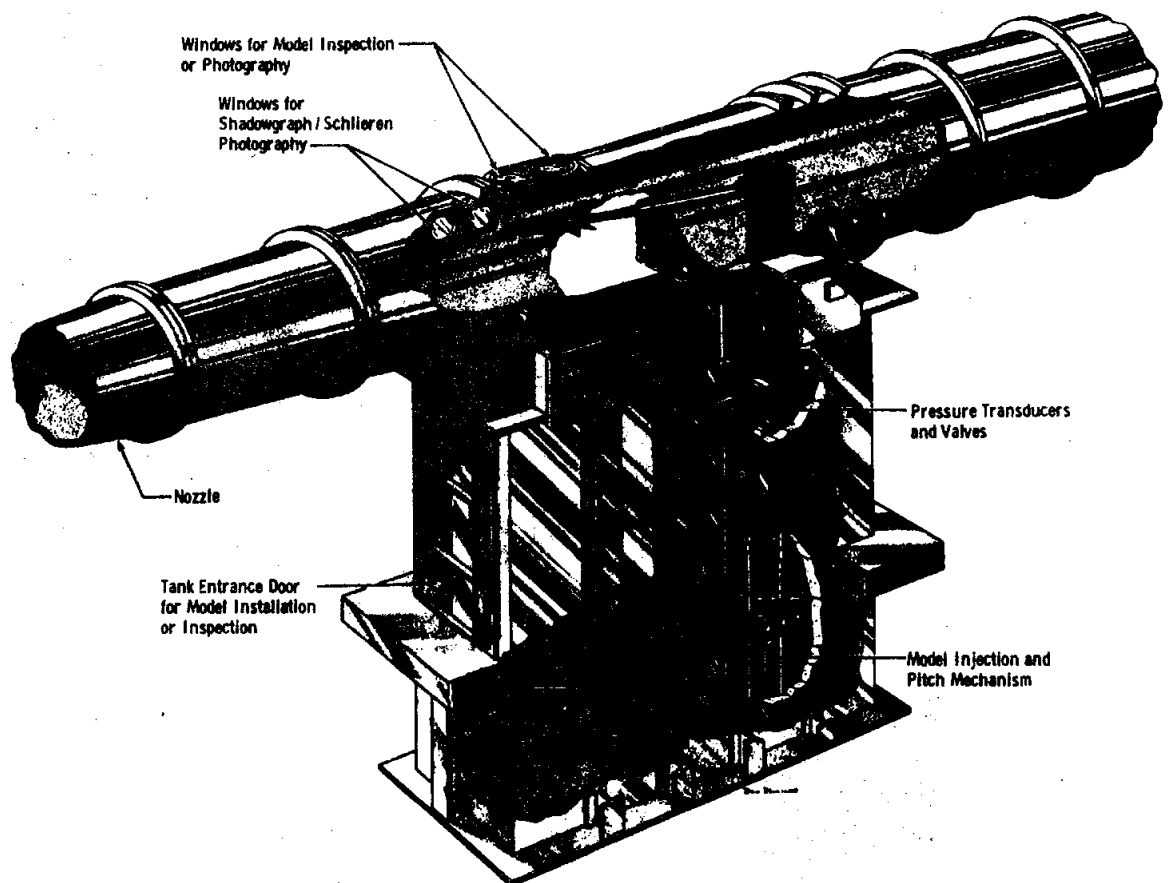
**a. Tunnel assembly**



**b. Tunnel test section  
Fig. 10 Tunnel A**



a. Tunnel assembly



b. Tunnel test section  
Fig. 11 Tunnel B

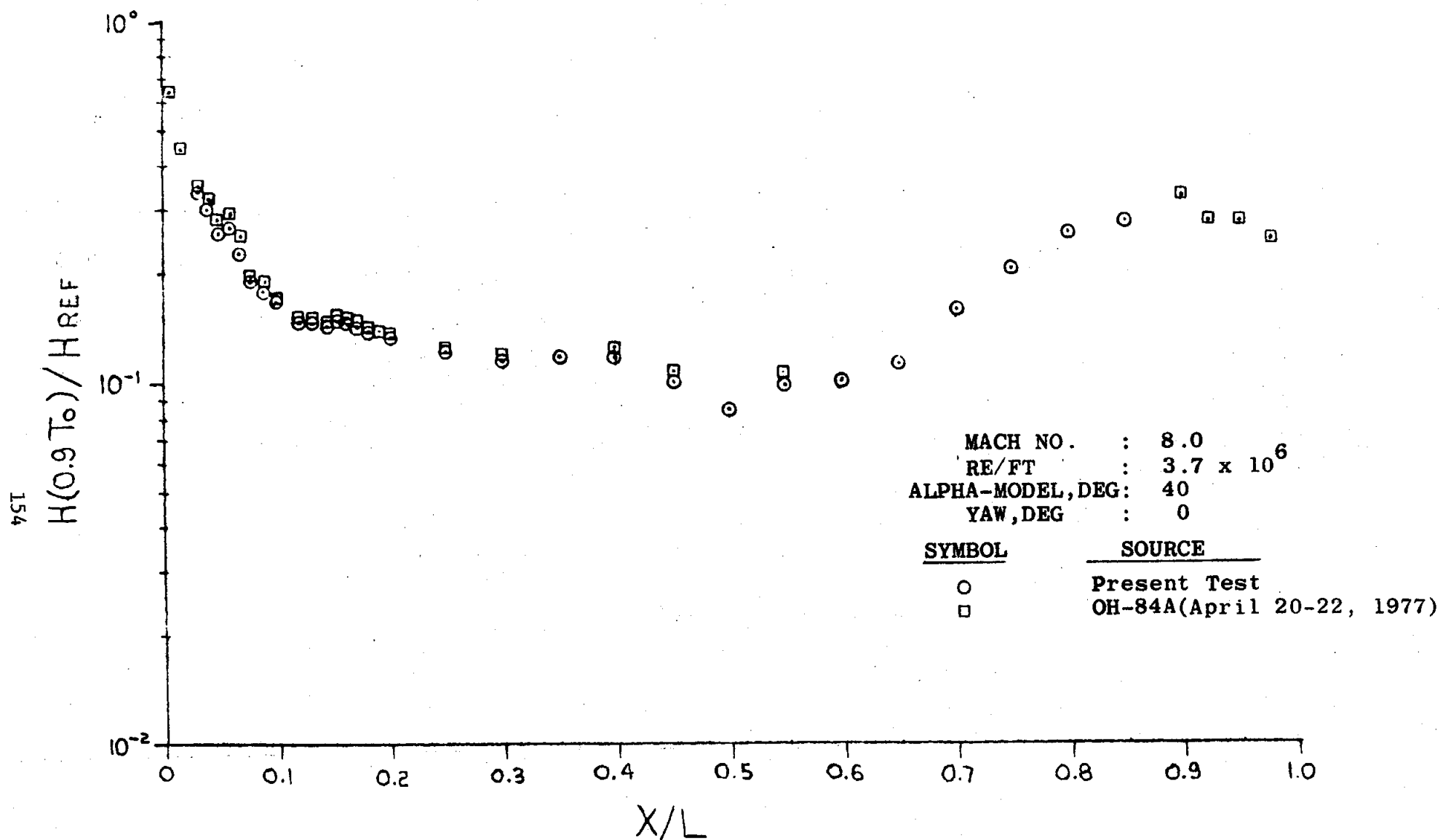


Fig. 12 Comparison of Current and Previous Test Results

## APPENDIX

## TABULATED SOURCE DATA

MODEL	DATASET		TEST IDENTIFICATION					
	4TH	COMPONENT	OH84B		OH105		IH102	
	CHARACTER *	DESCRIPTION	VOL.	PAGES	VOL.	PAGES	VOL.	PAGES
60	A	FUSELAGE	1	1-284	5	1-37	6	1-89
	B	FUSELAGE		285-444		38-62		-
	C	FUSELAGE		445-586		63-74		90-122
	D	LOWER NOSE		587-650		75-86		123-155
	E	LOWER NOSE		651-714		87-99		156-188
	F	LOWER MID FUSELAGE		715-778		100-111		-
	G	LOWER AFT FUSELAGE	2	779-874		112-124		-
	H	LOWER ELEVON FUSELAGE		875-970		-		-
	I	AFT FUSELAGE/ELEVON		971-1126		125-137		189-221
		SPLITLINE						
	J	UPPER RH WING		1127-1281		138-149		222-252
	K	LOWER BODY FLAP		1282-1377		150-162		-
	L	BODYFLAP EDGE		1378-1473		163-175		-
	M	VERTICAL TAIL		1474-1535		176-187		253-257
	N	UPPER MID FUSELAGE		1536-1655		188-211		258-320
	O	UPPER RH WING	3	1656-1811		212-223		321-353
	P	WING MISC		1812-1907		224-236		354-386
	Q	WING LOWER SURFACE		1908-2228		237-274		-
	R	WING UPPER SURFACE		2229-2484		275-299		387-450
	S	OMS POD	4	2485-2618		300-323		451-516
	T	VERTICAL TAIL		2619-2752		324-347		550-615
60	U	SPEEDBRAKE CAVITY		2753-2756		-		-
56	V	FUSELAGE		-		-		649-731
60	W	WINDOWS		2757-2820		348-359		616-648
	X	OMS POD		2821-2887		360-371		517-549
	Y	SSME NOZZLE		2888-3079		-		-
60	X	UPPER BODY FLAP		3080-3175		-		-
60	1	ORBITER BASE		3176-3269		-		-
83	2	CCL LINE		-		-		776-785
	3	FUSELAGE		-		-		756-775
	4	PILOT RT (X-SECT)		-		387-414		806-825
	5	TOP CENTERLINE		-		415-443		786-805
	6	MHB LINE		-		444-457		746-755
	7	BOTTOM CENTERLINE		-		458-471		732-745
	8	CANOPY		-		472-501		-
	9	UPPER RCS NOZZLES		-		502-516		-
83	0	ESC HTCH + WINDOWS		-		372-386		-

- \*1. Some components are collated into separate groups due to different geometric descriptions of the thermocouples groupings.
2. In the tabulated data, the thermocouples numbered ###A appear as 2### and ###C appear as 1###.

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DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG29)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
717	.5091	7.900	39.99	.3469-02	100.3	1242.	92.10	.1115-01	.4869	3717.	.3266-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
717	.1707-01	.5674-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
717	24.329	1.8190	2186.0	.4923-01	.5967-01	.5967-01	.9000	.8404-03	.1019-02	.5966	4.458	531.8
717	24.925	1.8830	2187.0	.4949-01	.5996-01	.5996-01	.9000	.8449-03	.1024-02	.6007	4.347	530.6
717	25.476	1.9110	2188.0	.6951-01	.8430-01	.8430-01	.9000	.1187-02	.1439-02	.8398	6.716	533.9
717	25.923	1.9810	2189.0	.6692-01	.8118-01	.8118-01	.9000	.1142-02	.1386-02	.8072	7.226	535.0



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG29)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
715	1.013	7.940	39.99	.3469-02	207.7	1264.	92.86	.2234-01	.9860	3751.	.6495-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
715	.2436-01	.4031-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
715	24.329	1.8190	2186.0	.4828-01	.5850-01	.5850-01	.9000	.1176-02	.1425-02	.8511	6.333	540.2
715	24.925	1.8830	2187.0	.5019-01	.6076-01	.6076-01	.9000	.1223-02	.1481-02	.8878	6.401	537.7
715	25.476	1.9110	2188.0	.7330-01	.8880-01	.8880-01	.9000	.1786-02	.2164-02	1.293	10.31	539.8
715	25.923	1.9810	2189.0	.7078-01	.8577-01	.8577-01	.9000	.1724-02	.2090-02	1.246	11.12	540.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG29)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
709	2.011	7.980	40.04	.1046-01	432.9	1294.	94.18	.4507-01	2.009	3796.	.1292-02	.7579-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
709	.3492-01	.2865-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
709	24.329	1.8190	2186.0	.7916-01	.9628-01	.9628-01	.9000	.2764-02	.3362-02	2.010	14.76	566.3
709	24.925	1.8830	2187.0	.7455-01	.9050-01	.9050-01	.9000	.2603-02	.3160-02	1.911	13.63	559.5
709	25.476	1.9110	2188.0	.1007	.1224	.1224	.9000	.3515-02	.4274-02	2.562	20.17	564.9
709	25.923	1.9810	2189.0	.9886-01	.1203	.1203	.9000	.3452-02	.4201-02	2.506	22.06	567.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG29)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BOFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
707	3.005	7.990	40.06	.6989-02	671.7	1324.	96.14	.6937-01	3.100	3841.	.1947-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
707	.4355-01	.2339-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
707	24.329	1.8190	2186.0	.1851	.2263	.2263	.9000	.8062-02	.9855-02	5.865	42.44	596.2
707	24.925	1.8830	2187.0	.1378	.1678	.1678	.9000	.6001-02	.7309-02	4.438	31.26	584.1
707	25.476	1.9110	2188.0	.1738	.2120	.2120	.9000	.7570-02	.9233-02	5.562	43.28	588.9
707	25.923	1.9810	2189.0	.1685	.2058	.2058	.9000	.7336-02	.8965-02	5.347	46.45	594.9

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OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O LOWER AFT FUSELAGE

(R4UG30)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BOFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
719	.5000	7.900	39.98	.3465-02	100.3	1257.	93.21	.1115-01	.4869	3739.	.3227-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
719	.1711-01	.5715-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
719	24.329	1.8190	2186.0	.4985-01	.6028-01	.6028-01	.9000	.8527-03	.1031-02	.6190	4.627	530.8
719	24.925	1.8830	2187.0	.4979-01	.6020-01	.6020-01	.9000	.8517-03	.1030-02	.6193	4.483	529.6
719	25.476	1.9110	2188.0	.7096-01	.8584-01	.8584-01	.9000	.1214-02	.1468-02	.8800	7.046	531.7
719	25.923	1.9910	2189.0	.6750-01	.8167-01	.8167-01	.9000	.1155-02	.1397-02	.8364	7.498	532.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG30)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
713	.9943	7.940	39.99	.6941-02	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
713	.2417-01	.4069-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
713	24.329	1.8190	2186.0	.4675-01	.5666-01	.5666-01	.9000	.1130-02	.1369-02	.8184	6.086	541.5
713	24.925	1.8830	2187.0	.4889-01	.5920-01	.5920-01	.9000	.1182-02	.1431-02	.8587	6.187	539.0
713	25.476	1.9110	2188.0	.7208-01	.8736-01	.8736-01	.9000	.1742-02	.2112-02	1.261	10.04	542.1
713	25.923	1.9810	2189.0	.6909-01	.8376-01	.8376-01	.9000	.1670-02	.2025-02	1.206	10.75	543.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4U030)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BOFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
711	1.999	7.980	40.06	.1048-01	436.8	1307.	95.13	.4548-01	2.027	3815.	.1290-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
711	.3514-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
711	24.329	1.8190	2186.0	.7972-01	.9678-01	.9678-01	.9000	.2801-02	.3401-02	2.077	15.26	565.2
711	24.925	1.8830	2187.0	.7496-01	.9081-01	.9081-01	.9000	.2634-02	.3191-02	1.972	14.07	558.1
711	25.476	1.9110	2188.0	.1013	.1228	.1228	.9000	.3558-02	.4317-02	2.646	20.85	563.2
711	25.923	1.9810	2189.0	.9957-01	.1209	.1209	.9000	.3499-02	.4249-02	2.590	22.83	566.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG30)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
705	3.029	7.990	40.07	.3498-02	670.2	1315.	95.49	.6921-01	3.093	3827.	.1956-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
705	.4345-01	.2332-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
705	24.329	1.8190	2186.0	.1887	.2310	.2310	.9000	.8199-02	.1004-01	5.880	42.52	597.4
705	24.925	1.8830	2187.0	.1400	.1708	.1708	.9000	.6083-02	.7421-02	4.438	31.24	585.2
705	25.476	1.9110	2188.0	.1759	.2149	.2149	.9000	.7642-02	.9339-02	5.531	42.98	591.0
705	25.923	1.9810	2189.0	.1698	.2079	.2079	.9000	.7376-02	.9032-02	5.289	45.88	597.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG31)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
725	.4997	7.900	39.98	-.1733-01	100.5	1259.	93.36	.1117-01	.4878	3742.	.3228-03	.7513-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
725	.1713-01	.5716-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
725	24.329	1.8190	2186.0	.4875-01	.5909-01	.5909-01	.9000	.8349-03	.1012-02	.6010	4.474	538.9
725	24.925	1.8830	2187.0	.5017-01	.6078-01	.6078-01	.9000	.8592-03	.1041-02	.6196	4.468	537.5
725	25.476	1.9110	2188.0	.6977-01	.8459-01	.8459-01	.9000	.1195-02	.1449-02	.8584	6.843	540.3
725	25.923	1.9810	2189.0	.6627-01	.8037-01	.8037-01	.9000	.1135-02	.1376-02	.8144	7.268	541.1



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OH84B MODEL 60-0 IN THE AEOC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG31)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
739	.9893	7.940	39.98	-.2427-01	204.0	1269.	93.22	.2194-01	.9684	3758.	.6353-03	.7502-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
739	.2416-01	.4077-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
739	24.329	1.8190	2186.0	.4713-01	.5718-01	.5718-01	.9000	.1139-02	.1382-02	.8217	6.092	547.1
739	24.925	1.8830	2187.0	.5033-01	.6103-01	.6103-01	.9000	.1216-02	.1475-02	.8806	6.326	544.7
739	25.476	1.9110	2188.0	.7290-01	.8847-01	.8847-01	.9000	.1761-02	.2138-02	1.269	10.08	548.0
739	25.923	1.9810	2189.0	.6938-01	.8425-01	.8425-01	.9000	.1676-02	.2036-02	1.205	10.71	549.8

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O LOWER AFT FUSELAGE

(R4U031)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
737	2.003	7.980	40.04	-.2093-01	434.1	1300.	94.62	.4520-01	2.015	3805.	.1289-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
737	.3500-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
737	24.329	1.8190	2186.0	.7926-01	.9636-01	.9636-01	.9000	.2774-02	.3372-02	2.031	14.91	567.4
737	24.925	1.8830	2187.0	.7608-01	.9232-01	.9232-01	.9000	.2663-02	.3231-02	1.967	14.01	561.0
737	25.476	1.9110	2188.0	.1026	.1247	.1247	.9000	.3592-02	.4365-02	2.635	20.74	566.0
737	25.923	1.9810	2189.0	.9976-01	.1213	.1213	.9000	.3491-02	.4246-02	2.552	22.46	568.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG31)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -12.50 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
727	3.035	7.990	40.06	-2.097-01	670.9	1314.	95.41	.6928-01	3.096	3826.	.1960-02	.7678-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
727	.4347-01	.2330-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
727	24.329	1.8190	2186.0	.1859	.2270	.2270	.9000	.8080-02	.9867-02	5.861	42.57	588.3
727	24.925	1.8830	2187.0	.1396	.1698	.1698	.9000	.6066-02	.7381-02	4.475	31.65	576.0
727	25.476	1.9110	2188.0	.1755	.2140	.2140	.9000	.7627-02	.9300-02	5.567	43.43	583.7
727	25.923	1.9810	2189.0	.1704	.2083	.2083	.9000	.7408-02	.9055-02	5.349	46.54	591.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 791

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG32)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
723	.4957	7.900	39.97	-.1731-01	100.1	1263.	93.66	.1113-01	.4862	3748.	.3207-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
723	.1711-01	.5736-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
723	24.329	1.8190	2186.0	.5090-01	.6158-01	.6158-01	.9000	.8707-03	.1053-02	.6340	4.731	534.6
723	24.925	1.8830	2187.0	.5097-01	.6165-01	.6165-01	.9000	.8720-03	.1055-02	.6359	4.595	533.4
723	25.476	1.9110	2188.0	.7189-01	.8696-01	.8696-01	.9000	.1230-02	.1488-02	.8958	7.163	534.2
723	25.923	1.9810	2189.0	.6882-01	.8324-01	.8324-01	.9000	.1177-02	.1424-02	.8582	7.688	533.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 792

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG32)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -5.000 SPD BRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
741	.9943	7.940	39.99	-2.082-01	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
741	.2417-01	.4069-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
741	24.329	1.8190	2186.0	.4789-01	.5812-01	.5812-01	.9000	.1157-02	.1405-02	.8320	6.170	546.9
741	24.925	1.8830	2187.0	.5042-01	.6115-01	.6115-01	.9000	.1219-02	.1478-02	.8789	6.315	544.5
741	25.476	1.9110	2188.0	.7368-01	.8942-01	.8942-01	.9000	.1781-02	.2161-02	1.280	10.17	546.9
741	25.923	1.9810	2189.0	.7001-01	.8499-01	.8499-01	.9000	.1692-02	.2054-02	1.215	10.80	547.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG32)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
735	1.997	7.980	40.06	-.2095-01	434.8	1304.	94.91	.4527-01	2.018	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
735	.3504-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
735	24.329	1.8190	2186.0	.7990-01	.9694-01	.9694-01	.9000	.2800-02	.3397-02	2.077	15.28	561.9
735	24.925	1.8830	2187.0	.7670-01	.9290-01	.9290-01	.9000	.2688-02	.3256-02	2.010	14.36	555.8
735	25.476	1.9110	2188.0	.1037	.1257	.1257	.9000	.3634-02	.4406-02	2.701	21.32	560.3
735	25.923	1.9810	2189.0	.1003	.1217	.1217	.9000	.3515-02	.4266-02	2.603	22.97	563.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG32)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
729	3.003	7.990	40.07	-.2097-01	668.3	1320.	95.85	.6901-01	3.084	3835.	.1943-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
729	.4342-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
729	24.329	1.8190	2186.0	.1843	.2251	.2251	.9000	.8002-02	.9772-02	5.829	42.28	591.2
729	24.925	1.8830	2187.0	.1386	.1686	.1686	.9000	.6016-02	.7320-02	4.456	31.47	578.9
729	25.476	1.9110	2188.0	.1766	.2153	.2153	.9000	.7668-02	.9346-02	5.637	43.95	584.6
729	25.923	1.9810	2189.0	.1713	.2091	.2091	.9000	.7438-02	.9081-02	5.426	47.25	590.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG33)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 9.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
721	.5028	7.900	39.98	-.1386-01	100.9	1257.	93.21	.1121-01	.4897	3739.	.3245-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
721	.1715-01	.5699-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
721	24.329	1.8190	2186.0	.5051-01	.6117-01	.6117-01	.9000	.8664-03	.1049-02	.6246	4.658	535.7
721	24.925	1.8830	2187.0	.5139-01	.6221-01	.6221-01	.9000	.8815-03	.1067-02	.6367	4.598	534.4
721	25.476	1.9110	2188.0	.7212-01	.8736-01	.8736-01	.9000	.1237-02	.1498-02	.8915	7.122	536.0
721	25.923	1.9810	2189.0	.6819-01	.8260-01	.8260-01	.9000	.1170-02	.1417-02	.8427	7.539	536.2



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG33)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
743	1.018	7.940	39.99	-.2081-01	209.4	1267.	93.08	.2253-01	.9941	3755.	.6532-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
743	.2447-01	.4021-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
743	24.329	1.8190	2186.0	.4847-01	.5884-01	.5884-01	.9000	.1186-02	.1440-02	.8525	6.318	548.0
743	24.925	1.8830	2187.0	.5134-01	.6227-01	.6227-01	.9000	.1256-02	.1524-02	.9062	6.507	545.5
743	25.476	1.9110	2188.0	.7436-01	.9026-01	.9026-01	.9000	.1820-02	.2209-02	1.308	10.39	547.7
743	25.923	1.9810	2189.0	.7098-01	.8618-01	.8618-01	.9000	.1737-02	.2109-02	1.248	11.10	548.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG33)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
733	1.990	7.980	40.04	-.2091-01	433.8	1305.	94.98	.4516-01	2.013	3813.	.1283-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
733	.3501-01	.2877-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
733	24.329	1.8190	2186.0	.7830-01	.9508-01	.9508-01	.9000	.2741-02	.3329-02	2.027	14.89	565.3
733	24.925	1.8830	2187.0	.7575-01	.9182-01	.9182-01	.9000	.2652-02	.3214-02	1.977	14.10	559.2
733	25.476	1.9110	2188.0	.1013	.1230	.1230	.9000	.3546-02	.4306-02	2.622	20.64	565.3
733	25.923	1.9810	2189.0	.9877-01	.1201	.1201	.9000	.3458-02	.4204-02	2.543	22.37	569.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 798

OH84B 60-0 LOWER AFT FUSELAGE

(R4U033)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
731	3.017	7.990	40.06	-.2096-01	671.5	1320.	95.85	.6935-01	3.099	3835.	.1953-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
731	.4352-01	.2335-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
731	24.329	1.8190	2186.0	.1850	.2259	.2259	.9000	.8052-02	.9832-02	5.870	42.58	590.7
731	24.925	1.8830	2187.0	.1391	.1692	.1692	.9000	.6052-02	.7364-02	4.485	31.68	578.6
731	25.476	1.9110	2188.0	.1768	.2155	.2155	.9000	.7696-02	.9377-02	5.663	44.17	583.8
731	25.923	1.9810	2189.0	.1712	.2090	.2090	.9000	.7450-02	.9095-02	5.437	47.35	569.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 799

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG34)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
633	.5017	7.900	39.93	-.3449-02	100.0	1252.	92.84	.1112-01	.4857	3732.	.3232-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
633	.1707-01	.5709-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
633	24.329	1.8190	2186.0	.5067-01	.6146-01	.6146-01	.9000	.8650-03	.1049-02	.6163	4.588	539.2
633	24.925	1.8830	2187.0	.5296-01	.6423-01	.6423-01	.9000	.9041-03	.1096-02	.6451	4.650	538.1
633	25.476	1.9110	2188.0	.7249-01	.8797-01	.8797-01	.9000	.1238-02	.1502-02	.8806	7.020	540.1
633	25.923	1.9810	2189.0	.6790-01	.8241-01	.8241-01	.9000	.1159-02	.1407-02	.8242	7.357	540.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 800

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG34)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = -12.50 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA -DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
659	1.001	7.940	39.97	-.4645-06	206.7	1270.	93.30	.2223-01	.9811	3760.	.6431-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
659	.2432-01	.4053-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
659	24.329	1.8190	2186.0	.4724-01	.5725-01	.5725-01	.9000	.1149-02	.1392-02	.8349	6.203	543.1
659	24.925	1.8830	2187.0	.5222-01	.6322-01	.6322-01	.9000	.1270-02	.1538-02	.9265	6.671	540.2
659	25.476	1.9110	2188.0	.7439-01	.9014-01	.9014-01	.9000	.1810-02	.2193-02	1.315	10.47	542.8
659	25.923	1.9810	2189.0	.6991-01	.8472-01	.8472-01	.9000	.1700-02	.2061-02	1.235	11.01	543.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 801

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG34)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
647	1.985	7.980	40.00	.3471-02	436.3	1312.	95.49	.4542-01	2.025	3823.	.1284-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
647	.3514-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
647	24.329	1.8190	2186.0	.8126-01	.9867-01	.9867-01	.9000	.2856-02	.3467-02	2.123	15.57	568.3
647	24.925	1.8830	2187.0	.7966-01	.9657-01	.9657-01	.9000	.2799-02	.3393-02	2.097	14.93	562.4
647	25.476	1.9110	2188.0	.1085	.1317	.1317	.9000	.3814-02	.4629-02	2.840	22.34	566.8
647	25.923	1.9810	2189.0	.1038	.1261	.1261	.9000	.3649-02	.4432-02	2.710	23.85	569.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 802

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG34)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
649	3.013	7.990	40.03	.6967-02	670.5	1320.	95.85	.6924-01	3.094	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
649	.4349-01	.2337-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
649	24.329	1.8190	2186.0	.1867	.2281	.2281	.9000	.8118-02	.9921-02	5.898	42.74	593.2
649	24.925	1.8930	2187.0	.1445	.1760	.1760	.9000	.6286-02	.7656-02	4.635	32.68	582.3
649	25.476	1.9110	2188.0	.1889	.2307	.2307	.9000	.8217-02	.1003-01	5.991	46.57	590.6
649	25.923	1.9810	2189.0	.1793	.2194	.2194	.9000	.7796-02	.9539-02	5.630	48.85	597.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 803

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG35)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
635	.4992	7.900	39.96	-.3458-02	99.17	1249.	92.62	.1102-01	.4815	3727.	.3212-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
635	.1699-01	.5725-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
635	24.329	1.8190	2186.0	.5127-01	.6219-01	.6219-01	.9000	.8711-03	.1057-02	.6195	4.616	537.5
635	24.925	1.8830	2187.0	.5351-01	.6489-01	.6489-01	.9000	.9092-03	.1103-02	.6474	4.670	536.6
635	25.476	1.9110	2188.0	.7311-01	.8868-01	.8868-01	.9000	.1242-02	.1507-02	.8836	7.055	537.3
635	25.923	1.9810	2189.0	.6884-01	.8344-01	.8344-01	.9000	.1170-02	.1418-02	.8346	7.472	535.1



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 804

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG35)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
657	.9860	7.940	39.99	-.4654-06	202.4	1265.	92.93	.2177-01	.9606	3752.	.6322-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
657	.2405-01	.4086-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
657	24.329	1.8190	2186.0	.4686-01	.5685-01	.5685-01	.9000	.1127-02	.1367-02	.8114	6.023	544.8
657	24.925	1.8930	2187.0	.5176-01	.6275-01	.6275-01	.9000	.1245-02	.1509-02	.8987	6.462	542.8
657	25.476	1.9110	2188.0	.7359-01	.8932-01	.8932-01	.9000	.1770-02	.2148-02	1.272	10.11	546.3
657	25.923	1.9810	2189.0	.6899-01	.8378-01	.8378-01	.9000	.1659-02	.2015-02	1.189	10.58	548.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 805

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG35)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
645	1.997	7.980	40.01	-.4664-06	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
645	.3502-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
645	24.329	1.8190	2186.0	.8164-01	.9935-01	.9935-01	.9000	.2859-02	.3479-02	2.089	15.30	572.0
645	24.925	1.8830	2187.0	.7957-01	.9666-01	.9666-01	.9000	.2786-02	.3385-02	2.053	14.59	566.0
645	25.476	1.9110	2188.0	.1083	.1318	.1318	.9000	.3792-02	.4614-02	2.771	21.74	571.9
645	25.923	1.9810	2189.0	.1039	.1266	.1266	.9000	.3638-02	.4432-02	2.646	23.22	575.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 806

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG35)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
655	2.999	7.990	40.01	.6952-02	675.0	1330.	96.58	.6970-01	3.115	3849.	.1948-02	.7772-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
655	.4369-01	.2340-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
655	24.329	1.8190	2186.0	.1858	.2269	.2269	.9000	.8117-02	.9914-02	5.955	43.09	596.0
655	24.925	1.8830	2187.0	.1430	.1741	.1741	.9000	.6249-02	.7605-02	4.658	32.81	584.3
655	25.476	1.9110	2188.0	.1886	.2300	.2300	.9000	.8239-02	.1005-01	6.078	47.22	591.9
655	25.923	1.9810	2189.0	.1802	.2203	.2203	.9000	.7874-02	.9623-02	5.761	49.98	598.0

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 807

OH84B 60-O LOWER AFT FUSELAGE

(R4UG36)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
637	.5033	7.900	39.93	-.6897-02	99.99	1249.	92.62	.1111-01	.4855	3727.	.3238-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
637	.1706-01	.5702-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
637	24.329	1.8190	2186.0	.4994-01	.6060-01	.6060-01	.9000	.8521-03	.1034-02	.6050	4.505	538.7
637	24.925	1.8830	2187.0	.5258-01	.6377-01	.6377-01	.9000	.8970-03	.1088-02	.6382	4.602	537.2
637	25.476	1.9110	2188.0	.7158-01	.8689-01	.8689-01	.9000	.1221-02	.1482-02	.8653	6.899	540.1
637	25.923	1.9810	2189.0	.6760-01	.8208-01	.8208-01	.9000	.1153-02	.1400-02	.8162	7.284	541.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 808

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG36)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = .0000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
663	1.016	7.940	39.97	-.4643-06	207.3	1260.	92.56	.2230-01	.9840	3745.	.6501-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
663	.2433-01	.4028-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
663	24.329	1.8190	2186.0	.4847-01	.5879-01	.5879-01	.9000	.1179-02	.1430-02	.8455	6.283	542.5
663	24.925	1.8830	2187.0	.5324-01	.6455-01	.6455-01	.9000	.1295-02	.1570-02	.9317	6.708	540.3
663	25.476	1.9110	2198.0	.7521-01	.9124-01	.9124-01	.9000	.1830-02	.2219-02	1.312	10.45	542.3
663	25.923	1.9810	2189.0	.7115-01	.8632-01	.8632-01	.9000	.1731-02	.2100-02	1.240	11.06	543.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 809

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG36)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
643	2.006	7.980	39.98	-.1040-01	434.5	1299.	94.54	.4523-01	2.016	3804.	.1291-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
643	.3501-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
643	24.329	1.8190	2186.0	.8102-01	.9843-01	.9843-01	.9000	.2836-02	.3446-02	2.082	15.31	564.4
643	24.925	1.8830	2187.0	.7985-01	.9684-01	.9684-01	.9000	.2795-02	.3390-02	2.069	14.76	558.6
643	25.476	1.9110	2188.0	.1083	.1316	.1316	.9000	.3791-02	.4607-02	2.779	21.88	565.5
643	25.923	1.9810	2189.0	.1040	.1266	.1266	.9000	.3641-02	.4431-02	2.654	23.34	569.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 810

OH84B 60-0 LOWER AFT FUSELAGE

(R4U036)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
653	2.998	7.990	40.02	.6962-02	672.4	1327.	96.36	.6944-01	3.103	3845.	.1945-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
653	.4359-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
653	24.329	1.8190	2186.0	.1828	.2233	.2233	.9000	.7969-02	.9735-02	5.827	42.18	595.5
653	24.925	1.8830	2187.0	.1418	.1727	.1727	.9000	.6183-02	.7528-02	4.592	32.35	584.0
653	25.476	1.9110	2188.0	.1865	.2276	.2276	.9000	.8129-02	.9919-02	5.977	46.44	591.5
653	25.923	1.9810	2189.0	.1779	.2175	.2175	.9000	.7755-02	.9480-02	5.653	49.04	597.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 811

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG37)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
639	.5035	7.900	39.95	-.1383-01	99.79	1247.	92.47	.1109-01	.4845	3724.	.3237-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
639	.1704-01	.5702-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
639	24.329	1.8190	2186.0	.5025-01	.6091-01	.6091-01	.9000	.8562-03	.1038-02	.6097	4.549	534.6
639	24.925	1.8830	2187.0	.5279-01	.6397-01	.6397-01	.9000	.8994-03	.1090-02	.6412	4.632	533.8
639	25.476	1.9110	2188.0	.7261-01	.8805-01	.8805-01	.9000	.1237-02	.1500-02	.8799	7.031	535.5
639	25.923	1.9810	2189.0	.6840-01	.8295-01	.8295-01	.9000	.1166-02	.1413-02	.8286	7.415	535.8



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 812

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG37)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
661	1.021	7.940	39.97	-.4644-06	206.8	1254.	92.12	.2224-01	.9816	3736.	.6517-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
661	.2428-01	.4021-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
661	24.329	1.8190	2186.0	.4796-01	.5824-01	.5824-01	.9000	.1164-02	.1414-02	.8273	6.147	543.1
661	24.925	1.8830	2187.0	.5286-01	.6414-01	.6414-01	.9000	.1283-02	.1557-02	.9148	6.585	540.8
661	25.476	1.9110	2188.0	.7470-01	.9070-01	.9070-01	.9000	.1813-02	.2202-02	1.289	10.26	543.1
661	25.923	1.9810	2189.0	.7069-01	.8586-01	.8586-01	.9000	.1716-02	.2084-02	1.218	10.85	544.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 813

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG37)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = 5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
641	2.028	7.980	39.99	-.6938-02	435.7	1292.	94.03	.4536-01	2.022	3794.	.1302-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
641	.3502-01	.2854-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
641	24.329	1.8190	2186.0	.8160-01	.9906-01	.9906-01	.9000	.2858-02	.3469-02	2.094	15.43	559.0
641	24.925	1.8830	2187.0	.7975-01	.9665-01	.9665-01	.9000	.2793-02	.3385-02	2.063	14.76	553.1
641	25.476	1.9110	2188.0	.1087	.1320	.1320	.9000	.3808-02	.4623-02	2.788	22.01	559.4
641	25.923	1.9810	2189.0	.1044	.1269	.1269	.9000	.3656-02	.4444-02	2.664	23.52	563.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 814

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG37)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BOFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
651	2.990	7.990	40.05	.3490-02	671.4	1328.	96.43	.6934-01	3.098	3846.	.1941-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
651	.4356-01	.2344-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
651	24.329	1.8190	2186.0	.1841	.2247	.2247	.9000	.8021-02	.9788-02	5.896	42.74	592.6
651	24.925	1.8830	2187.0	.1428	.1737	.1737	.9000	.6223-02	.7569-02	4.646	32.77	581.1
651	25.476	1.9110	2188.0	.1876	.2287	.2287	.9000	.8174-02	.9964-02	6.043	47.03	588.4
651	25.923	1.9810	2189.0	.1792	.2189	.2189	.9000	.7809-02	.9536-02	5.724	49.74	594.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG38)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = -12.50 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
631	.5096	7.900	39.97	.1384-01	101.0	1247.	92.47	.1122-01	.4903	3724.	.3276-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
631	.1714-01	.5668-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
631	24.329	1.8190	2186.0	.5115-01	.6199-01	.6199-01	.9000	.8768-03	.1063-02	.6250	4.665	533.9
631	24.925	1.8830	2187.0	.5514-01	.6681-01	.6681-01	.9000	.9451-03	.1145-02	.6746	4.875	532.9
631	25.476	1.9110	2188.0	.7713-01	.9352-01	.9352-01	.9000	.1322-02	.1603-02	.9406	7.517	535.2
631	25.923	1.9810	2189.0	.6929-01	.8402-01	.8402-01	.9000	.1188-02	.1440-02	.8444	7.556	535.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG38)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
605	1.013	7.940	39.97	.1385-01	206.2	1258.	92.42	.2218-01	.9787	3742.	.6477-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
605	.2425-01	.4035-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
605	24.329	1.8190	2186.0	.4869-01	.5906-01	.5906-01	.9000	.1181-02	.1433-02	.8454	6.285	541.8
605	24.925	1.8830	2187.0	.5538-01	.6713-01	.6713-01	.9000	.1343-02	.1628-02	.9648	6.950	539.4
605	25.476	1.9110	2188.0	.8003-01	.9710-01	.9710-01	.9000	.1941-02	.2355-02	1.389	11.06	542.3
605	25.923	1.9810	2189.0	.7339-01	.8906-01	.8906-01	.9000	.1780-02	.2160-02	1.273	11.35	542.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER AFT FUSELAGE

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(R4UG38)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
603	2.009	7.980	39.99	.1734-01	434.1	1297.	94.40	.4519-01	2.014	3801.	.1292-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
603	.3498-01	.2866-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
603	24.329	1.8190	2186.0	.8304-01	.1009	.1009	.9000	.2905-02	.3528-02	2.133	15.70	562.3
603	24.925	1.8830	2187.0	.8185-01	.9923-01	.9923-01	.9000	.2863-02	.3471-02	2.119	15.14	556.4
603	25.476	1.9110	2188.0	.1169	.1420	.1420	.9000	.4089-02	.4967-02	3.000	23.64	563.1
603	25.923	1.9810	2189.0	.1110	.1349	.1349	.9000	.3882-02	.4719-02	2.839	25.02	565.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG38)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -12.50    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
581	2.994	7.990	40.05	.1047-01	671.7	1327.	96.36	.6937-01	3.100	3845.	.1943-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
581	.4357-01	.2342-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
581	24.329	1.8190	2186.0	.1828	.2236	.2236	.9000	.7965-02	.9742-02	5.794	41.86	599.2
581	24.925	1.8830	2187.0	.1441	.1757	.1757	.9000	.6278-02	.7653-02	4.635	32.58	588.3
581	25.476	1.9110	2188.0	.2018	.2468	.2468	.9000	.8792-02	.1075-01	6.400	49.56	598.7
581	25.923	1.9810	2189.0	.1888	.2313	.2313	.9000	.8227-02	.1008-01	5.946	51.43	603.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG39)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
621	.4994	7.900	39.93	.1380-01	97.55	1235.	91.58	.1084-01	.4736	3706.	.3195-03	.7369-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
621	.1682-01	.5733-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
621	24.329	1.8190	2186.0	.5013-01	.6083-01	.6083-01	.9000	.8431-03	.1023-02	.5917	4.419	532.8
621	24.925	1.8830	2187.0	.5480-01	.6648-01	.6648-01	.9000	.9216-03	.1118-02	.6476	4.682	532.0
621	25.476	1.9110	2188.0	.7584-01	.9210-01	.9210-01	.9000	.1275-02	.1549-02	.8920	7.129	535.3
621	25.923	1.9810	2189.0	.6852-01	.8323-01	.8323-01	.9000	.1152-02	.1400-02	.8050	7.202	536.1



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG39)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = -5.000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SL/GS /FT3	MU LB-SEC /FT2
615	1.002	7.940	39.97	.1384-01	204.7	1261.	92.64	.2202-01	.9716	3746.	.6415-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
615	.2418-01	.4055-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
615	24.329	1.8190	2186.0	.4901-01	.5941-01	.5941-01	.9000	.1185-02	.1436-02	.8529	6.345	540.8
615	24.925	1.8830	2187.0	.5536-01	.6707-01	.6707-01	.9000	.1338-02	.1622-02	.9663	6.963	538.7
615	25.476	1.9110	2188.0	.8017-01	.9721-01	.9721-01	.9000	.1938-02	.2350-02	1.394	11.11	541.3
615	25.923	1.9810	2189.0	.7292-01	.8843-01	.8843-01	.9000	.1763-02	.2138-02	1.267	11.31	541.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG39)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
593	2.004	7.980	40.00	.1389-01	436.0	1303.	94.84	.4539-01	2.023	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
593	.3509-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
593	24.329	1.8190	2186.0	.7891-01	.9584-01	.9584-01	.9000	.2768-02	.3363-02	2.040	14.99	565.6
593	24.925	1.8830	2187.0	.7905-01	.9584-01	.9584-01	.9000	.2773-02	.3363-02	2.062	14.70	559.3
593	25.476	1.9110	2188.0	.1139	.1384	.1384	.9000	.3996-02	.4857-02	2.938	23.10	567.6
593	25.923	1.9810	2189.0	.1095	.1331	.1331	.9000	.3840-02	.4671-02	2.811	24.72	570.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 822

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG39)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
579	2.997	7.990	40.02	.1044-01	670.8	1325.	96.21	.6927-01	3.096	3842.	.1943-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
579	.4353-01	.2342-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
579	24.329	1.8190	2186.0	.1821	.2230	.2230	.9000	.7924-02	.9705-02	5.721	41.26	602.7
579	24.925	1.8830	2187.0	.1436	.1753	.1753	.9000	.6252-02	.7631-02	4.582	32.16	591.7
579	25.476	1.9110	2188.0	.1998	.2447	.2447	.9000	.8696-02	.1065-01	6.280	48.53	602.5
579	25.923	1.9810	2189.0	.1878	.2304	.2304	.9000	.8173-02	.1003-01	5.855	50.53	608.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 823

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG40)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
623	.4983	7.900	39.97	.1384-01	99.83	1256.	93.14	.1109-01	.4847	3737.	.3215-03	.7495-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
623	.1706-01	.5726-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
623	24.329	1.8190	2186.0	.5030-01	.6087-01	.6087-01	.9000	.8582-03	.1039-02	.6203	4.633	532.9
623	24.925	1.8830	2187.0	.5496-01	.6650-01	.6650-01	.9000	.9379-03	.1135-02	.6788	4.908	531.9
623	25.476	1.9110	2188.0	.7708-01	.9333-01	.9333-01	.9000	.1315-02	.1593-02	.9482	7.580	534.7
623	25.923	1.9810	2189.0	.6959-01	.8429-01	.8429-01	.9000	.1188-02	.1438-02	.8553	7.655	535.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 824

OH84B 60-0 LOWER AFT FUSELAGE

(R4U040)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
613	1.004	7.940	39.97	.1731-01	204.8	1260.	92.56	.2203-01	.9721	3745.	.6423-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
613	.2418-01	.4052-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
613	24.329	1.8190	2186.0	.4848-01	.5878-01	.5878-01	.9000	.1172-02	.1421-02	.8425	6.266	540.9
613	24.925	1.8830	2187.0	.5480-01	.6641-01	.6641-01	.9000	.1325-02	.1606-02	.9552	6.883	538.8
613	25.476	1.9110	2188.0	.7970-01	.9666-01	.9666-01	.9000	.1927-02	.2337-02	1.384	11.02	541.7
613	25.923	1.9810	2189.0	.7247-01	.8791-01	.8791-01	.9000	.1752-02	.2126-02	1.257	11.21	542.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 825

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG40)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
595	2.001	7.980	40.02	.1392-01	435.8	1304.	94.91	.4537-01	2.022	3811.	.1290-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
595	.3508-01	.2869-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
595	24.329	1.8190	2186.0	.7905-01	.9603-01	.9603-01	.9000	.2773-02	.3369-02	2.045	15.02	566.3
595	24.925	1.8830	2187.0	.7880-01	.9555-01	.9555-01	.9000	.2764-02	.3352-02	2.056	14.66	560.0
595	25.476	1.9110	2188.0	.1141	.1387	.1387	.9000	.4003-02	.4866-02	2.944	23.14	568.4
595	25.923	1.9810	2189.0	.1093	.1330	.1330	.9000	.3834-02	.4664-02	2.806	24.67	571.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 826

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG40)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	F PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MJ LB-SEC /FT2
577	3.019	7.990	40.06	.6989-02	670.3	1318.	95.71	.6922-01	3.093	3832.	.1952-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
577	.4347-01	.2335-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
577	24.329	1.8190	2186.0	.1875	.2295	.2295	.9000	.8149-02	.9977-02	5.861	42.36	598.4
577	24.925	1.8830	2187.0	.1466	.1789	.1789	.9000	.6372-02	.7776-02	4.651	32.70	587.8
577	25.476	1.9110	2188.0	.2037	.2494	.2494	.9000	.8854-02	.1084-01	6.366	49.29	598.6
577	25.923	1.9810	2189.0	.1910	.2343	.2343	.9000	.8303-02	.1019-01	5.920	51.19	604.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 827

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG41)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
625	.5056	7.900	39.96	.1729-01	100.1	1246.	92.40	.1112-01	.4859	3723.	.3249-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
625	.1706-01	.5691-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
625	24.329	1.8190	2186.0	.5093-01	.6172-01	.6172-01	.9000	.8690-03	.1053-02	.6195	4.626	532.8
625	24.925	1.8830	2187.0	.5540-01	.6711-01	.6711-01	.9000	.9452-03	.1145-02	.6746	4.878	531.9
625	25.476	1.9110	2188.0	.7737-01	.9380-01	.9380-01	.9000	.1320-02	.1600-02	.9387	7.505	534.5
625	25.923	1.9810	2189.0	.7001-01	.8490-01	.8490-01	.9000	.1194-02	.1448-02	.8486	7.596	535.2



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 828

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG41)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
611	.9967	7.940	39.96	.1384-01	204.6	1265.	92.93	.2201-01	.9711	3752.	.6391-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
611	.2418-01	.4064-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
611	24.329	1.8190	2186.0	.4889-01	.5922-01	.5922-01	.9000	.1182-02	.1432-02	.8568	6.376	540.0
611	24.925	1.8830	2187.0	.5546-01	.6714-01	.6714-01	.9000	.1341-02	.1624-02	.9745	7.025	538.0
611	25.476	1.9110	2188.0	.8085-01	.9797-01	.9797-01	.9000	.1955-02	.2369-02	1.415	11.28	540.8
611	25.923	1.9810	2189.0	.7372-01	.8934-01	.8934-01	.9000	.1783-02	.2161-02	1.290	11.51	541.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 829

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG41)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = 5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
597	2.013	7.980	40.02	.1392-01	434.8	1297.	94.40	.4526-01	2.018	3801.	.1294-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
597	.3501-01	.2863-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
597	24.329	1.8190	2186.0	.8268-01	.1004	.1004	.9000	.2894-02	.3516-02	2.124	15.62	562.8
597	24.925	1.8830	2187.0	.8188-01	.9928-01	.9928-01	.9000	.2866-02	.3476-02	2.121	15.14	556.8
597	25.476	1.9110	2188.0	.1174	.1427	.1427	.9000	.4110-02	.4994-02	3.011	23.72	564.1
597	25.923	1.9810	2189.0	.1119	.1361	.1361	.9000	.3918-02	.4764-02	2.860	25.20	566.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 830

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG41)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 5.000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RM/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
583	2.999	7.990	40.05	.1396-01	671.1	1325.	96.21	.6930-01	3.097	3842.	.1944-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
583	.4354-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
583	24.329	1.8190	2186.0	.1841	.2250	.2250	.9000	.8013-02	.9797-02	5.829	42.15	597.2
583	24.925	1.8830	2187.0	.1439	.1753	.1753	.9000	.6264-02	.7632-02	4.628	32.57	585.9
583	25.476	1.9110	2188.0	.2020	.2470	.2470	.9000	.8795-02	.1075-01	6.401	49.61	596.9
583	25.923	1.9810	2189.0	.1893	.2318	.2318	.9000	.8240-02	.1009-01	5.952	51.52	602.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 831

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG42)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
619	.5067	7.900	39.95	.1383-01	99.45	1239.	91.88	.1105-01	.4829	3712.	.3247-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
619	.1699-01	.5689-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
619	24.329	1.8190	2186.0	.5093-01	.6179-01	.6179-01	.9000	.8654-03	.1050-02	.6097	4.551	534.1
619	24.925	1.8830	2187.0	.5562-01	.6747-01	.6747-01	.9000	.9451-03	.1146-02	.6668	4.819	533.1
619	25.476	1.9110	2188.0	.7730-01	.9383-01	.9383-01	.9000	.1313-02	.1594-02	.9233	7.378	535.7
619	25.923	1.9810	2189.0	.7047-01	.8555-01	.8555-01	.9000	.1197-02	.1454-02	.8412	7.527	536.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 832

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG42)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
617	1.002	7.940	39.97	.1731-01	206.2	1267.	93.08	.2218-01	.9787	3755.	.6431-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
617	.2428-01	.4052-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
617	24.329	1.8190	2186.0	.4909-01	.5947-01	.5947-01	.9000	.1192-02	.1444-02	.8654	6.438	540.7
617	24.925	1.8830	2187.0	.5568-01	.6741-01	.6741-01	.9000	.1352-02	.1637-02	.9840	7.090	538.9
617	25.476	1.9110	2188.0	.8079-01	.9789-01	.9789-01	.9000	.1962-02	.2377-02	1.423	11.33	541.6
617	25.923	1.9810	2189.0	.7396-01	.8963-01	.8963-01	.9000	.1796-02	.2177-02	1.301	11.61	542.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 833

OH84B 60-0 LOWER AFT FUSELAGE

(R4U042)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
591	1.988	7.980	40.01	.1391-01	433.9	1306.	95.05	.4517-01	2.013	3814.	.1283-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
591	.3501-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
591	24.329	1.8190	2186.0	.7717-01	.9370-01	.9370-01	.9000	.2702-02	.3281-02	1.999	14.68	565.8
591	24.925	1.8830	2187.0	.7804-01	.9460-01	.9460-01	.9000	.2732-02	.3312-02	2.037	14.53	560.0
591	25.476	1.9110	2188.0	.1120	.1361	.1361	.9000	.3920-02	.4764-02	2.890	22.71	568.4
591	25.923	1.9810	2189.0	.1066	.1297	.1297	.9000	.3734-02	.4541-02	2.741	24.10	571.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 834

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG42)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 8.000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
589	3.003	7.990	40.07	.1748-01	673.7	1327.	96.36	.6957-01	3.109	3845.	.1949-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
589	.4363-01	.2339-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
589	24.329	1.8190	2186.0	.1822	.2229	.2229	.9000	.7951-02	.9726-02	5.781	41.76	599.6
589	24.925	1.8830	2187.0	.1431	.1743	.1743	.9000	.6242-02	.7607-02	4.614	32.45	587.5
589	25.476	1.9110	2188.0	.2002	.2449	.2449	.9000	.8735-02	.1069-01	6.351	49.15	599.7
589	25.923	1.9810	2189.0	.1895	.2323	.2323	.9000	.8270-02	.1013-01	5.964	51.55	605.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 835

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG43)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
627	.5147	7.900	39.95	.1383-01	101.4	1242.	92.10	.1127-01	.4923	3717.	.3302-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
627	.1716-01	.5643-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
627	24.329	1.8190	2186.0	.4900-01	.5943-01	.5943-01	.9000	.8410-03	.1020-02	.5950	4.440	534.2
627	24.925	1.8830	2187.0	.5482-01	.6647-01	.6647-01	.9000	.9409-03	.1141-02	.6666	4.816	533.3
627	25.476	1.9110	2188.0	.7511-01	.9116-01	.9116-01	.9000	.1289-02	.1565-02	.9091	7.261	536.5
627	25.923	1.9810	2189.0	.5307-01	.6439-01	.6439-01	.9000	.9108-03	.1105-02	.6432	5.757	535.5



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OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 836

OH84B 60-O LOWER AFT FUSELAGE

(R4UG43)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
609	1.024	7.940	39.98	.1386-01	209.1	1261.	92.64	.2249-01	.9925	3746.	.6553-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
609	.2443-01	.4012-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
609	24.329	1.8190	2186.0	.4896-01	.5938-01	.5938-01	.9000	.1196-02	.1451-02	.8594	6.387	542.4
609	24.925	1.8830	2187.0	.5557-01	.6736-01	.6736-01	.9000	.1358-02	.1646-02	.9782	7.044	540.3
609	25.476	1.9110	2188.0	.8059-01	.9777-01	.9777-01	.9000	.1969-02	.2389-02	1.412	11.24	543.4
609	25.923	1.9810	2189.0	.6756-01	.8197-01	.8197-01	.9000	.1651-02	.2003-02	1.184	10.55	543.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 837

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG43)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
599	1.990	7.980	40.04	.1744-01	435.0	1307.	95.13	.4528-01	2.019	3815.	.1285-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
599	.3506-01	.2876-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
599	24.329	1.8190	2186.0	.8151-01	.9890-01	.9890-01	.9000	.2638-02	.3468-02	2.124	15.62	563.5
599	24.925	1.8830	2187.0	.8086-01	.9795-01	.9795-01	.9000	.2835-02	.3434-02	2.124	15.16	557.6
599	25.476	1.9110	2188.0	.1160	.1409	.1409	.9000	.4069-02	.4939-02	3.017	23.75	565.1
599	25.923	1.9810	2189.0	.1104	.1341	.1341	.9000	.3871-02	.4704-02	2.859	25.17	568.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 838

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG43)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
585	2.982	7.990	40.06	.1397-01	669.7	1328.	96.43	.6916-01	3.091	3846.	.1936-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
585	.4351-01	.2347-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
585	24.329	1.8190	2186.0	.1816	.2220	.2220	.9000	.7903-02	.9658-02	5.773	41.75	597.2
585	24.925	1.8830	2187.0	.1420	.1729	.1729	.9000	.6178-02	.7524-02	4.582	32.25	585.9
585	25.476	1.9110	2188.0	.1992	.2434	.2434	.9000	.8666-02	.1059-01	6.331	49.06	597.1
585	25.923	1.9810	2189.0	.1872	.2292	.2292	.9000	.8143-02	.9970-02	5.901	51.06	603.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 839

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG44)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
629	.5153	7.900	39.96	.1729-01	101.8	1244.	92.25	.1131-01	.4940	3720.	.3309-03	.7423-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
629	.1720-01	.5638-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
629	24.329	1.8190	2186.0	.5010-01	.6075-01	.6075-01	.9000	.8617-03	.1045-02	.6115	4.565	534.0
629	24.925	1.8830	2187.0	.5492-01	.6657-01	.6657-01	.9000	.9445-03	.1145-02	.6711	4.850	533.1
629	25.476	1.9110	2188.0	.5529-01	.6704-01	.6704-01	.9000	.9510-03	.1153-02	.6749	5.397	534.0
629	25.923	1.9810	2189.0	.2337-01	.2831-01	.2831-01	.9000	.4019-03	.4870-03	.2861	2.566	531.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 840

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG44)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 23.50    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
607	.9872	7.940	39.96	.1383-01	205.3	1276.	93.74	.2208-01	.9744	3769.	.6358-03	.7543-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
607	.2426-01	.4078-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
607	24.329	1.8190	2186.0	.4907-01	.5938-01	.5938-01	.9000	.1190-02	.1441-02	.8745	6.504	541.0
607	24.925	1.8830	2187.0	.5550-01	.6712-01	.6712-01	.9000	.1346-02	.1629-02	.9921	7.149	538.8
607	25.476	1.9110	2188.0	.7527-01	.9110-01	.9110-01	.9000	.1826-02	.2210-02	1.341	10.68	541.4
607	25.923	1.9810	2189.0	.3764-01	.4551-01	.4551-01	.9000	.9131-03	.1104-02	.6734	6.019	538.1

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OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O LOWER AFT FUSELAGE

(R4UG44)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = 23.50    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
601	1.999	7.980	39.99	.1388-01	435.3	1304.	94.91	.4531-01	2.020	3811.	.1289-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
601	.3506-01	.2871-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
601	24.329	1.8190	2186.0	.8097-01	.9836-01	.9836-01	.9000	.2839-02	.3449-02	2.094	15.38	566.1
601	24.925	1.8830	2187.0	.8043-01	.9753-01	.9753-01	.9000	.2820-02	.3420-02	2.097	14.95	559.9
601	25.476	1.9110	2188.0	.1152	.1401	.1401	.9000	.4040-02	.4911-02	2.971	23.35	568.3
601	25.923	1.9810	2189.0	.1078	.1311	.1311	.9000	.3779-02	.4598-02	2.769	24.34	571.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 842

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG44)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 23.50 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
587	3.006	7.990	40.06	.1398-01	671.3	1323.	96.07	.6933-01	3.098	3839.	.1948-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
587	.4353-01	.2339-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
587	24.329	1.8190	2186.0	.1848	.2259	.2259	.9000	.8047-02	.9835-02	5.853	42.37	595.3
587	24.925	1.8830	2187.0	.1443	.1758	.1758	.9000	.6281-02	.7653-02	4.635	32.64	584.7
587	25.476	1.9110	2188.0	.2013	.2460	.2460	.9000	.8761-02	.1071-01	6.372	49.42	595.4
587	25.923	1.9810	2189.0	.1894	.2319	.2319	.9000	.8245-02	.1010-01	5.948	51.52	601.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG45)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
681	.5058	7.900	39.95	-.1034-01	101.2	1255.	93.06	.1125-01	.4913	3736.	.3262-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
681	.1718-01	.5684-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
681	24.329	1.8190	2186.0	.4989-01	.6043-01	.6043-01	.9000	.8571-03	.1038-02	.6170	4.604	534.8
681	24.925	1.8830	2187.0	.5947-01	.7200-01	.7200-01	.9000	.1021-02	.1237-02	.7363	5.319	533.8
681	25.476	1.9110	2188.0	.9317-01	.1129	.1129	.9000	.1600-02	.1939-02	1.150	9.182	536.4
681	25.923	1.9810	2189.0	.8241-01	.9985-01	.9985-01	.9000	.1416-02	.1715-02	1.017	9.095	536.4



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 844

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG45)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
667	1.005	7.940	39.96	-.6922-02	205.3	1261.	92.64	.2208-01	.9744	3746.	.6433-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
667	.2421-01	.4049 .01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
667	24.329	1.8190	2186.0	.4922-01	.5973-01	.5973-01	.9000	.1192-02	.1446-02	.8542	6.344	543.9
667	24.925	1.8830	2187.0	.5707-01	.6920-01	.6920-01	.9000	.1382-02	.1675-02	.9934	7.147	541.7
667	25.476	1.9110	2188.0	.1007	.1223	.1223	.9000	.2438-02	.2961-02	1.740	13.82	547.0
667	25.923	1.9810	2189.0	.9243-01	.1123	.1123	.9000	.2238-02	.2718-02	1.596	14.19	547.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG45)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BOFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
687	1.992	7.980	40.00	-.6947-02	434.9	1306.	95.05	.4527-01	2.018	3814.	.1285-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
687	.3505-01	.2875-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
687	24.329	1.8190	2186.0	.7897-01	.9583-01	.9583-01	.9000	.2768-02	.3359-02	2.054	15.10	563.6
687	24.925	1.8830	2187.0	.8080-01	.9790-01	.9790-01	.9000	.2832-02	.3432-02	2.118	15.11	558.1
687	25.476	1.9110	2188.0	.1279	.1555	.1555	.9000	.4484-02	.5449-02	3.303	25.96	568.9
687	25.923	1.9910	2189.0	.1243	.1513	.1513	.9000	.4358-02	.5302-02	3.194	28.06	572.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 846

OH84B 60-0 LOWER AFT FUSELAGE

(R4U045)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
701	2.998	7.990	40.05	-.6978-02	669.5	1323.	96.07	.6914-01	3.090	3839.	.1942-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
701	.4347-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
701	24.329	1.8190	2186.0	.1687	.2067	.2067	.9000	.7332-02	.8985-02	5.273	38.01	603.6
701	24.925	1.8830	2187.0	.1467	.1792	.1792	.9000	.6379-02	.7789-02	4.662	32.72	591.8
701	25.476	1.9110	2188.0	.2117	.2597	.2597	.9000	.9205-02	.1129-01	6.592	50.84	606.5
701	25.923	1.9810	2189.0	.2012	.2474	.2474	.9000	.8748-02	.1075-01	6.205	53.43	613.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 847

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG46)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
679	.5025	7.900	39.97	-.6923-02	100.5	1255.	93.06	.1117-01	.4881	3736.	.3241-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
679	.1712-01	.5703-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAN/TO	TAN/TO	H(TO) BTU/R FT2SEC	H(TAN) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
679	24.329	1.8190	2186.0	.4893-01	.5928-01	.5928-01	.9000	.8378-03	.1015-02	.6025	4.494	535.5
679	24.925	1.8830	2187.0	.5894-01	.7137-01	.7137-01	.9000	.1009-02	.1222-02	.7266	5.247	534.6
679	25.476	1.9110	2188.0	.8898-01	.1078	.1078	.9000	.1524-02	.1846-02	1.093	8.729	537.1
679	25.923	1.9810	2189.0	.7883-01	.9554-01	.9554-01	.9000	.1350-02	.1636-02	.9680	8.655	537.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 848

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG46)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = .0000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
665	1.003	7.940	39.97	-.1732-01	205.8	1265.	92.93	.2213-01	.9768	3752.	.6429-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
665	.2425-01	.4052-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
665	24.329	1.8190	2186.0	.4757-01	.5782-01	.5782-01	.9000	.1154-02	.1402-02	.8238	6.097	550.7
665	24.925	1.8830	2187.0	.5651-01	.6862-01	.6862-01	.9000	.1371-02	.1664-02	.9823	7.045	548.0
665	25.476	1.9110	2188.0	.9908-01	.1206	.1206	.9000	.2403-02	.2924-02	1.705	13.49	555.0
665	25.923	1.9810	2189.0	.9129-01	.1111	.1111	.9000	.2214-02	.2696-02	1.567	13.87	557.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 849

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG46)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
689	1.996	7.980	39.99	-.1041-01	434.3	1303.	94.84	.4521-01	2.015	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
689	.3502-01	.2873-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
689	24.329	1.8190	2186.0	.7952-01	.9658-01	.9658-01	.9000	.2784-02	.3382-02	2.053	15.08	565.3
689	24.925	1.8830	2187.0	.8111-01	.9836-01	.9836-01	.9000	.2840-02	.3444-02	2.110	15.04	559.8
689	25.476	1.9110	2188.0	.1287	.1566	.1566	.9000	.4507-02	.5484-02	3.296	25.87	571.4
689	25.923	1.9810	2189.0	.1245	.1516	.1516	.9000	.4358-02	.5309-02	3.169	27.80	575.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 850

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG46)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
699	2.999	7.990	40.05	-.6984-02	670.4	1324.	96.14	.6923-01	3.094	3841.	.1944-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
699	.4351-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
699	24.329	1.8190	2186.0	.1690	.2070	.2070	.9000	.7353-02	.9006-02	5.303	38.25	602.5
699	24.925	1.8830	2187.0	.1466	.1790	.1790	.9000	.6380-02	.7786-02	4.677	32.83	590.7
699	25.476	1.9110	2188.0	.2134	.2616	.2616	.9000	.9283-02	.1138-01	6.666	51.44	605.6
699	25.923	1.9810	2189.0	.2017	.2479	.2479	.9000	.8777-02	.1078-01	6.242	53.77	612.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 851

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG47)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 8.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
683	.5030	7.900	39.93	-.6896-02	100.5	1254.	92.99	.1117-01	.4880	3735.	.3242-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
683	.1712-01	.5700-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
683	24.329	1.8190	2186.0	.5007-01	.6065-01	.6065-01	.9000	.8570-03	.1038-02	.6156	4.592	535.3
683	24.925	1.8830	2187.0	.6066-01	.7347-01	.7347-01	.9000	.1038-02	.1258-02	.7466	5.391	534.6
683	25.476	1.9110	2188.0	.9423-01	.1142	.1142	.9000	.1613-02	.1955-02	1.154	9.214	537.9
683	25.923	1.9810	2189.0	.8380-01	.1016	.1016	.9000	.1434-02	.1739-02	1.026	9.173	538.2



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 852

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG47)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 8.000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
669	1.010	7.940	39.95	-1.1037-01	205.9	1259.	92.49	.2215-01	.9773	3743.	.6462-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
669	.2424-01	.4040-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
669	24.329	1.8190	2186.0	.4915-01	.5964-01	.5964-01	.9000	.1191-02	.1446-02	.8522	6.331	543.4
669	24.925	1.8830	2187.0	.5707-01	.6921-01	.6921-01	.9000	.1383-02	.1678-02	.9921	7.139	541.5
669	25.476	1.9110	2188.0	.1009	.1225	.1225	.9000	.2445-02	.2970-02	1.741	13.83	546.6
669	25.923	1.9810	2189.0	.9240-01	.1123	.1123	.9000	.2240-02	.2721-02	1.593	14.17	547.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 853

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG47)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BOFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
685	2.023	7.980	39.98	-.6930-02	434.5	1292.	94.03	.4523-01	2.016	3794.	.1298-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
685	.3497-01	.2858-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
685	24.329	1.8190	2186.0	.8218-01	.9984-01	.9984-01	.9000	.2874-02	.3492-02	2.098	15.45	561.6
685	24.925	1.8830	2187.0	.1009	.1224	.1224	.9000	.3530-02	.4282-02	2.595	18.54	556.3
685	25.476	1.9110	2188.0	.1415	.1723	.1723	.9000	.4948-02	.6026-02	3.575	28.09	569.2
685	25.923	1.9810	2189.0	.1269	.1547	.1547	.9000	.4438-02	.5409-02	3.196	28.08	571.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 854

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG47)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 8.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
703	2.990	7.990	40.01	-6.955-02	668.4	1324.	96.14	.6903-01	3.085	3841.	.1938-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
703	.4344-01	.2345-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
703	24.329	1.8190	2186.0	.1688	.2066	.2066	.9000	.7332-02	.8977-02	5.297	38.23	601.3
703	24.925	1.8830	2187.0	.1463	.1785	.1785	.9000	.6354-02	.7753-02	4.664	32.76	589.7
703	25.476	1.9110	2188.0	.2121	.2599	.2599	.9000	.9214-02	.1129-01	6.629	51.19	604.2
703	25.923	1.9810	2189.0	.2023	.2485	.2485	.9000	.8790-02	.1079-01	6.269	54.04	610.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 855

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG48)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
675	.5021	7.900	39.94	-.6904-02	100.2	1253.	92.91	.1114-01	.4866	3733.	.3235-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
675	.1709-01	.5706-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
675	24.329	1.8190	2186.0	.4847-01	.5874-01	.5874-01	.9000	.8283-03	.1004-02	.5932	4.422	536.5
675	24.925	1.8830	2187.0	.5527-01	.6697-01	.6697-01	.9000	.9446-03	.1144-02	.6775	4.890	535.4
675	25.476	1.9110	2188.0	.9053-01	.1098	.1098	.9000	.1547-02	.1877-02	1.104	8.801	539.4
675	25.923	1.9810	2189.0	.5722-01	.6941-01	.6941-01	.9000	.9779-03	.1186-02	.6977	6.232	539.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 856

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG48)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
673	1.003	7.940	39.97	-.6929-02	205.6	1264.	92.86	.2211-01	.9759	3751.	.6427-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
673	.2424-01	.4052-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
673	24.329	1.8190	2186.0	.4798-01	.5818-01	.5818-01	.9000	.1163-02	.1410-02	.8382	6.228	542.9
673	24.925	1.8830	2187.0	.5566-01	.6745-01	.6745-01	.9000	.1349-02	.1635-02	.9753	7.020	540.8
673	25.476	1.9110	2188.0	.9887-01	.1200	.1200	.9000	.2397-02	.2909-02	1.718	13.65	546.7
673	25.923	1.9810	2189.0	.7921-01	.9614-01	.9614-01	.9000	.1920-02	.2330-02	1.377	12.26	546.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 857

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG48)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
691	1.993	7.980	39.99	-.6942-02	434.6	1305.	94.98	.4524-01	2.017	3813.	.1286-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
691	.3504-01	.2875-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
691	24.329	1.8190	2186.0	.7998-01	.9718-01	.9718-01	.9000	.2802-02	.3405-02	2.065	15.16	567.7
691	24.925	1.8830	2187.0	.8111-01	.9839-01	.9839-01	.9000	.2842-02	.3448-02	2.110	15.03	562.0
691	25.476	1.9110	2188.0	.1285	.1564	.1564	.9000	.4501-02	.5479-02	3.292	25.81	573.4
691	25.923	1.9810	2189.0	.1239	.1510	.1510	.9000	.4340-02	.5289-02	3.155	27.64	577.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 858

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG48)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
697	2.999	7.990	40.00	-.6947-02	668.9	1322.	96.00	.6908-01	3.087	3838.	.1942-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
697	.4345-01	.2342-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
697	24.329	1.8190	2186.0	.1798	.2199	.2199	.9000	.7813-02	.9555-02	5.663	40.97	596.8
697	24.925	1.8830	2187.0	.1464	.1786	.1786	.9000	.6361-02	.7758-02	4.670	32.84	587.5
697	25.476	1.9110	2188.0	.2133	.2613	.2613	.9000	.9269-02	.1135-01	6.672	51.58	601.8
697	25.923	1.9810	2189.0	.2020	.2480	.2480	.9000	.8777-02	.1077-01	6.260	54.03	608.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG49)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
677	.5060	7.900	39.96	-.6920-02	101.1	1254.	92.99	.1124-01	.4909	3735.	.3262-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
677	.1717-01	.5684-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
677	24.329	1.8190	2186.0	.5048-01	.6114-01	.6114-01	.9000	.8666-03	.1050-02	.6227	4.645	535.1
677	24.925	1.8830	2187.0	.5902-01	.7147-01	.7147-01	.9000	.1013-02	.1227-02	.7291	5.266	534.1
677	25.476	1.9110	2188.0	.6163-01	.7467-01	.7467-01	.9000	.1058-02	.1282-02	.7598	6.071	535.6
677	25.923	1.9810	2189.0	.2796-01	.3385-01	.3385-01	.9000	.4800-03	.5811-03	.3458	3.098	533.3



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 860

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG49)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 23.50 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
671	1.007	7.940	39.96	-.1038-01	204.7	1257.	92.34	.2202-01	.9716	3740.	.6435-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
671	.2416-01	.4047-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
671	24.329	1.8190	2186.0	.4948-01	.6008-01	.6008-01	.9000	.1196-02	.1452-02	.8521	6.327	544.0
671	24.925	1.8830	2187.0	.5701-01	.6917-01	.6917-01	.9000	.1377-02	.1671-02	.9843	7.080	542.1
671	25.476	1.9110	2188.0	.8694-01	.1056	.1056	.9000	.2101-02	.2552-02	1.492	11.86	546.3
671	25.923	1.9810	2189.0	.4668-01	.5666-01	.5666-01	.9000	.1128-02	.1369-02	.8043	7.170	543.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG49)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
693	2.000	7.980	40.00	-1.1042-01	434.5	1302.	94.76	.4523-01	2.016	3808.	.1288-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
693	.3502-01	.2871-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
693	24.329	1.8190	2186.0	.7990-01	.9709-01	.9709-01	.9000	.2798-02	.3400-02	2.057	15.10	566.6
693	24.925	1.8830	2187.0	.8138-01	.9873-01	.9873-01	.9000	.2850-02	.3457-02	2.112	15.05	560.7
693	25.476	1.9110	2188.0	.1292	.1573	.1573	.9000	.4525-02	.5508-02	3.303	25.91	571.9
693	25.923	1.9810	2189.0	.1223	.1489	.1489	.9000	.4282-02	.5216-02	3.111	27.30	575.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG49)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 23.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
695	3.030	7.990	40.02	-.6963-02	669.0	1313.	95.34	.6909-01	3.087	3825.	.1956-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
695	.4340-01	.2332-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
695	24.329	1.8190	2186.0	.1846	.2260	.2260	.9000	.8014-02	.9810-02	5.745	41.58	595.7
695	24.925	1.8830	2187.0	.1492	.1821	.1821	.9000	.6476-02	.7903-02	4.705	33.11	586.0
695	25.476	1.9110	2188.0	.2154	.2641	.2641	.9000	.9347-02	.1146-01	6.653	51.45	600.9
695	25.923	1.9810	2189.0	.2039	.2506	.2506	.9000	.8851-02	.1088-01	6.236	53.83	608.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 863

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG50)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BOFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
767	.5029	7.900	39.98	-.3466-02	100.1	1251.	92.77	.1113-01	.4863	3730.	.3238-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
767	.1708-01	.5703-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
767	24.329	1.8190	2186.0	.5010-01	.6079-01	.6079-01	.9000	.8557-03	.1038-02	.6087	4.531	539.4
767	24.925	1.8830	2187.0	.5914-01	.7172-01	.7172-01	.9000	.1010-02	.1225-02	.7197	5.187	538.1
767	25.476	1.9110	2188.0	.1125	.1367	.1367	.9000	.1922-02	.2335-02	1.359	10.81	543.8
767	25.923	1.9810	2189.0	.1033	.1256	.1256	.9000	.1764-02	.2145-02	1.244	11.08	545.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG50)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
757	1.043	7.940	39.99	-.4654-06	214.1	1265.	92.93	.2302-01	1.016	3752.	.6687-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
757	.2474-01	.3973-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
757	24.329	1.8190	2186.0	.4816-01	.5850-01	.5850-01	.9000	.1191-02	.1447-02	.8523	6.313	549.2
757	24.925	1.8830	2187.0	.5688-01	.6904-01	.6904-01	.9000	.1407-02	.1708-02	1.010	7.252	546.5
757	25.476	1.9110	2188.0	.1104	.1344	.1344	.9000	.2731-02	.3325-02	1.938	15.31	555.9
757	25.923	1.9810	2189.0	.1077	.1312	.1312	.9000	.2664-02	.3245-02	1.880	16.63	558.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER AFT FUSELAGE

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(R4UG50)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
755	1.966	7.980	40.06	-4684-06	429.7	1307.	95.13	.4474-01	1.994	3815.	.1269-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
755	.3485-01	.2894-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
755	24.329	1.8190	2186.0	.7671-01	.9315-01	.9315-01	.9000	.2674-02	.3247-02	1.980	14.54	566.2
755	24.925	1.8830	2187.0	.7704-01	.9340-01	.9340-01	.9000	.2685-02	.3255-02	2.002	14.27	560.9
755	25.476	1.9110	2188.0	.1401	.1706	.1706	.9000	.4882-02	.5945-02	3.568	27.94	575.9
755	25.923	1.9810	2189.0	.1344	.1639	.1639	.9000	.4684-02	.5713-02	3.400	29.75	580.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG50)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
745	3.041	7.990	40.06	-.3495-02	670.5	1312.	95.27	.6924-01	3.094	3823.	.1962-02	.7666-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
745	.4344-01	.2328-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
745	24.329	1.8190	2186.0	.1854	.2271	.2271	.9000	.8053-02	.9867-02	5.747	41.55	598.0
745	24.925	1.8830	2187.0	.1518	.1854	.1854	.9000	.6593-02	.8056-02	4.762	33.46	589.3
745	25.476	1.9110	2188.0	.2311	.2840	.2840	.9000	.1004-01	.1234-01	7.082	54.63	606.4
745	25.923	1.9810	2189.0	.2115	.2604	.2604	.9000	.9189-02	.1131-01	6.421	55.29	613.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG51)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
765	.5049	7.900	39.98	-.3466-02	100.4	1250.	92.69	.1116-01	.4875	3729.	.3249-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
765	.1710-01	.5692-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
765	24.329	1.8190	2186.0	.5088-01	.6165-01	.6165-01	.9000	.8699-03	.1054-02	.6221	4.642	534.5
765	24.925	1.8830	2187.0	.5798-01	.7025-01	.7025-01	.9000	.9913-03	.1201-02	.7089	5.119	534.8
765	25.476	1.9110	2188.0	.1043	.1265	.1265	.9000	.1783-02	.2164-02	1.265	10.09	540.1
765	25.923	1.9810	2189.0	.7027-01	.8530-01	.8530-01	.9000	.1202-02	.1459-02	.8525	7.611	540.2



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 868

OH84B 60-0 LOWER AFT FUSELAGE

(R4U051)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
759	1.001	7.940	39.99	-1.4655-06	206.7	1270.	93.30	.2224-01	.9813	3760.	.6433-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
759	.2433-01	.4053-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
759	24.329	1.8190	2186.0	.4869-01	.5908-01	.5908-01	.9000	.1184-02	.1437-02	.8550	6.338	547.7
759	24.925	1.8830	2187.0	.5677-01	.6883-01	.6883-01	.9000	.1381-02	.1674-02	1.000	7.185	545.3
759	25.476	1.9110	2188.0	.1090	.1325	.1325	.9000	.2653-02	.3224-02	1.899	15.04	553.7
759	25.923	1.9810	2189.0	.9390-01	.1142	.1142	.9000	.2284-02	.2777-02	1.633	14.47	554.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG51)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
753	2.020	7.980	40.04	-46.78-06	434.4	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
753	.3498-01	.2859-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
753	24.329	1.8190	2186.0	.8048-01	.9790-01	.9790-01	.9000	.2815-02	.3424-02	2.044	15.01	566.4
753	24.925	1.8830	2187.0	.8057-01	.9787-01	.9787-01	.9000	.2818-02	.3423-02	2.061	14.69	561.2
753	25.476	1.9110	2188.0	.1442	.1759	.1759	.9000	.5042-02	.6152-02	3.614	28.30	575.9
753	25.923	1.9810	2189.0	.1380	.1686	.1686	.9000	.4827-02	.5898-02	3.438	30.08	580.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER AFT FUSELAGE

(R4UG51)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
747	2.979	7.990	40.06	-.4686-06	660.0	1316.	95.56	.6816-01	3.046	3829.	.1925-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
747	.4312-01	.2351-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
747	24.329	1.8190	2186.0	.1687	.2067	.2067	.9000	.7277-02	.8914-02	5.213	37.66	599.3
747	24.925	1.8830	2187.0	.1478	.1805	.1805	.9000	.6375-02	.7785-02	4.633	32.55	589.0
747	25.476	1.9110	2188.0	.2276	.2793	.2793	.9000	.9814-02	.1205-01	6.969	53.77	605.6
747	25.923	1.9810	2189.0	.2084	.2563	.2563	.9000	.8985-02	.1105-01	6.326	54.51	611.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 871

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG52)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
763	.4981	7.900	39.97	-.3462-02	99.31	1252.	92.84	.1104-01	.4822	3732.	.3209-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
763	.1701-01	.5729-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
763	24.329	1.8190	2186.0	.4949-01	.6007-01	.6007-01	.9000	.8419-03	.1022-02	.5987	4.454	540.5
763	24.925	1.8830	2187.0	.5433-01	.6591-01	.6591-01	.9000	.9242-03	.1121-02	.6587	4.746	538.9
763	25.476	1.9110	2188.0	.6774-01	.8226-01	.8226-01	.9000	.1152-02	.1399-02	.8171	6.506	542.6
763	25.923	1.9810	2189.0	.3195-01	.3878-01	.3878-01	.9000	.5435-03	.6596-03	.3864	3.449	540.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 872

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG52)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BOFLAP = 23.50 SPCBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
761	1.006	7.940	39.99	-4652-06	206.4	1265.	92.93	.2220-01	.9799	3752.	.6449-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
761	.2429-01	.4046-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
761	24.329	1.8190	2186.0	.4837-01	.5875-01	.5875-01	.9000	.1175-02	.1427-02	.8413	6.233	548.7
761	24.925	1.8830	2187.0	.5637-01	.6841-01	.6841-01	.9000	.1369-02	.1662-02	.9839	7.063	546.2
761	25.476	1.9110	2188.0	.9155-01	.1113	.1113	.9000	.2224-02	.2704-02	1.583	12.54	552.7
761	25.923	1.9810	2189.0	.5593-01	.6796-01	.6796-01	.9000	.1359-02	.1651-02	.9711	8.628	549.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 873

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG52)

LWR AFT FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
751	1.987	7.980	40.06	-4685-06	435.2	1309.	95.27	.4531-01	2.020	3818.	.1284-02	.7667-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
751	.3508-01	.2878-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
751	24.329	1.8190	2186.0	.7869-01	.9556-01	.9556-01	.9000	.2761-02	.3353-02	2.047	15.03	567.2
751	24.925	1.8830	2187.0	.7933-01	.9618-01	.9618-01	.9000	.2783-02	.3374-02	2.079	14.80	561.8
751	25.476	1.9110	2188.0	.1420	.1729	.1729	.9000	.4981-02	.6067-02	3.643	28.51	577.3
751	25.923	1.9810	2189.0	.1332	.1624	.1624	.9000	.4673-02	.5699-02	3.398	29.71	581.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 874

OH84B 60-0 LOWER AFT FUSELAGE

(R4UG52)

LWR AFT FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
749	2.958	7.990	40.06	-4686-06	659.9	1322.	96.00	.6815-01	3.045	3838.	.1916-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
749	.4315-01	.2358-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
749	24.329	1.8190	2186.0	.1672	.2047	.2047	.9000	.7215-02	.8833-02	5.207	37.61	600.0
749	24.925	1.8830	2187.0	.1458	.1779	.1779	.9000	.6291-02	.7676-02	4.608	32.37	589.3
749	25.476	1.9110	2188.0	.2238	.2746	.2746	.9000	.9659-02	.1185-01	6.911	53.31	606.2
749	25.923	1.9810	2189.0	.2081	.2558	.2558	.9000	.8978-02	.1104-01	6.358	54.73	613.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 875

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH29)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
718	.5143	7.900	39.98	.3466-02	101.8	1246.	92.40	.1131-01	.4942	3723.	.3305-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
718	.1721-01	.5643-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
718	24.480	2.4590	2197.0	.3010-01	.3636-01	.3636-01	.9000	.5179-03	.6257-03	.3746	2.637	522.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 876

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH29)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
BDFLAP = -12.50 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
716	1.024	7.940	39.99	.3470-02	208.1	1257.	92.34	.2239-01	.9879	3740.	.6543-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
716	.2437-01	.4014-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
716	24.480	2.4590	2197.0	.3682-01	.4452-01	.4452-01	.9000	.8972-03	.1085-02	.6524	4.575	529.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 877

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH29)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = -12.50    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
710	2.005	7.980	40.03	.1045-01	436.6	1304.	94.91	.4546-01	2.026	3811.	.1293-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
710	.3512-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
710	24.480	2.4590	2197.0	.5043-01	.6079-01	.6079-01	.9000	.1771-02	.2135-02	1.355	9.459	538.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 878

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH29)

LOWER ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
708	2.986	7.990	40.06	.1048-01	669.0	1326.	96.29	.6909-01	3.087	3843.	.1937-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
708	.4347-01	.2346-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
708	24.480	2.4590	2197.0	.6810-01	.8220-01	.8220-01	.9000	.2961-02	.3574-02	2.289	15.86	552.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 879

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH30)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
720	.5013	7.900	39.98	.3465-02	100.8	1259.	93.36	.1120-01	.4894	3742.	.3238-03	.7513-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
720	.1715-01	.5706-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
720	24.480	2.4590	2197.0	.3230-01	.3897-01	.3897-01	.9000	.5540-03	.6684-03	.4074	2.866	523.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 880

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH30)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
714	.9986	7.940	40.00	.1042-01	205.2	1266.	93.00	.2207-01	.9741	3754.	.6406-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
714	.2422-01	.4060-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
714	24.480	2.4590	2197.0	.3369-01	.4065-01	.4065-01	.9000	.8162-03	.9847-03	.6036	4.241	526.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 881

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH30)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
712	1.997	7.980	40.05	.1047-01	433.8	1302.	94.76	.4516-01	2.013	3808.	.1286-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
712	.3499-01	.2873-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
712	24.480	2.4590	2197.0	.5047-01	.6085-01	.6085-01	.9000	.1766-02	.2129-02	1.348	9.407	538.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 882

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH30)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
706	3.002	7.990	40.06	.6989-02	668.9	1321.	95.92	.6908-01	3.087	3836.	.1944-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
706	.4344-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
706	24.480	2.4590	2197.0	.6933-01	.8370-01	.8370-01	.9000	.3012-02	.3636-02	2.316	16.06	551.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 883

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH31)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
BDFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
726	.5101	7.900	39.98	-.1733-01	102.3	1257.	93.21	.1137-01	.4967	3739.	.3292-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
726	.1728-01	.5658-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
726	24.480	2.4590	2197.0	.3345-01	.4042-01	.4042-01	.9000	.5780-03	.6983-03	.4215	2.959	527.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 884

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH31)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
740	1.019	7.940	39.99	-.2081-01	209.3	1266.	93.00	.2252-01	.9937	3754.	.6534-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) #.0175
740	.2447-01	.4020-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
740	24.480	2.4590	2197.0	.3738-01	.4521-01	.4521-01	.9000	.9145-03	.1106-02	.6680	4.671	535.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 885

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH31)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BOFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
738	1.994	7.980	40.04	-.2093-01	434.8	1305.	94.98	.4527-01	2.018	3813.	.1286-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
738	.3505-01	.2874-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
738	24.480	2.4590	2197.0	.4932-01	.5953-01	.5953-01	.9000	.1728-02	.2086-02	1.315	9.152	544.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 888

(R4UH31)

## LOWER ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPDGRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
728	2.981	7.990	40.06	-2.097-01	667.2	1325.	96.21	.6890-01	3.079	3842.	.1933-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
728	.4341-01	.2348-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
728	24.480	2.4590	2197.0	.7588-01	.9159-01	.9159-01	.9000	.3294-02	.3976-02	2.544	17.64	552.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH32)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
724	.4963	7.900	39.97	-.1732-01	100.2	1263.	93.66	.1114-01	.4867	3748.	.3211-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
724	.1712-01	.5733-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
724	24.480	2.4590	2197.0	.3407-01	.4113-01	.4113-01	.9000	.5831-03	.7040-03	.4288	3.011	527.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 888

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH32)

LOWER ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
742	1.010	7.940	39.99	-1.2082-01	207.8	1267.	93.08	.2235-01	.9865	3755.	.6482-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
742	.2438-01	.4036-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
742	24.480	2.4590	2197.0	.3751-01	.4538-01	.4538-01	.9000	.9145-03	.1106-02	.6679	4.668	536.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH32)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
BDFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
736	2.005	7.980	40.05	-.2095-01	437.2	1305.	94.98	.4552-01	2.029	3813.	.1293-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
736	.3515-01	.2866-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
736	24.480	2.4590	2197.0	.4888-01	.5897-01	.5897-01	.9000	.1718-02	.2073-02	1.309	9.117	542.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 890

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH32)

LOWER ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BOFLAP = -5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
730	3.012	7.990	40.06	-.2097-01	668.8	1318.	95.71	.6907-01	3.086	3832.	.1948-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
730	.4342-01	.2338-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
730	24.480	2.4590	2197.0	.7619-01	.9198-01	.9198-01	.9000	.3308-02	.3994-02	2.540	17.63	550.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 891

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH33)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
722	.5002	7.900	39.98	-.1387-01	100.2	1256.	93.14	.1114-01	.4865	3737.	.3227-03	.7495-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
722	.1710-01	.5715-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TK DEG. R
722	24.490	2.4590	2197.0	.3091-01	.3736-01	.3736-01	.9000	.5285-03	.6398-03	.3843	2.696	528.6



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 892

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH33)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
744	1.009	7.940	39.98	-.2081-01	207.3	1266.	93.00	.2230-01	.9841	3754.	.6472-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
744	.2435-01	.4039-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
744	24.480	2.4590	2197.0	.3355-01	.4058-01	.4058-01	.9000	.8168-03	.9880-03	.5968	4.174	535.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH33

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
734	2.024	7.980	40.04	-.2091-01	437.2	1297.	94.40	.4552-01	2.029	3801.	.1301-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
734	.3511-01	.2855-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
734	24.480	2.4590	2197.0	.4906-01	.5924-01	.5924-01	.9000	.1722-02	.2080-02	1.299	9.053	542.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 894

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH33)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
732	3.029	7.990	40.06	-.2096-01	672.6	1318.	95.71	.6946-01	3.104	3832.	.1959-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
732	.4354-01	.2331-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
732	24.480	2.4590	2197.0	.7822-01	.9440-01	.9440-01	.9000	.3406-02	.4111-02	2.618	18.18	549.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH34)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BOFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
634	.5013	7.900	39.93	-.3449-02	100.1	1253.	92.91	.1112-01	.4859	3733.	.3231-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) #.0175
634	.1708-01	.5710-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
634	24.480	2.4590	2197.0	.4528-01	.5480-01	.5480-01	.9000	.7733-03	.9359-03	.5577	3.907	531.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 896

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH34)

## LOWER ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    - BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
660	1.010	7.940	39.98	-4647-06	207.9	1267.	93.08	.2236-01	.9868	3755.	.6484-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
660	.2438-01	.4035-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
660	24.480	2.4590	2197.0	.4726-01	.5718-01	.5718-01	.9000	.1152-02	.1394-02	.8415	5.881	536.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 897

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH34)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BOFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
648	1.995	7.980	39.99	.3470-02	436.1	1307.	95.13	.4540-01	2.024	3815.	.1288-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
648	.3511-01	.2872-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
648	24.480	2.4590	2197.0	.7156-01	.8649-01	.8649-01	.9000	.2512-02	.3036-02	1.902	13.20	549.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 898

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH34)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
650	3.009	7.990	40.05	.6980-02	670.4	1321.	95.92	.6923-01	3.094	3836.	.1948-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
550	.4349-01	.2338-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
650	24.480	2.4590	2197.0	.1111	.1346	.1346	.9000	.4830-02	.5854-02	3.646	25.11	565.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 899

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH35)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BOFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L #FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
636	X10 6 .5020	7.900	39.95	-.3458-02	99.73	1249.	92.62	.1108-01	.4842	3727.	.3230-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
636	.1704-01	.5709-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
636	24.480	2.4590	2197.0	.4472-01	.5409-01	.5409-01	.9000	.7619-03	.9217-03	.5490	3.853	528.1



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER ELEVON FUSELAGE

(R40430)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
658	1.007	7.940	39.98	-.4647-06	207.2	1267.	93.08	.2229-01	.9835	3755.	.6462-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
658	.2434-01	.4042-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
658	24.480	2.4590	2197.0	.4729-01	.5722-01	.5722-01	.9000	.1151-02	.1393-02	.8409	5.877	536.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 901

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH35)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
646	2.016	7.980	39.99	-.4655-06	436.5	1299.	94.54	.4544-01	2.025	3804.	.1297-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
646	.3509-01	.2860-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QOOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
646	24.480	2.4590	2197.0	.7001-01	.8494-01	.8494-01	.9000	.2457-02	.2980-02	1.816	12.54	559.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 902

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH35)

LOWER ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
656	3.001	7.990	40.02	.6961-02	672.3	1326.	96.29	.6943-01	3.103	3843.	.1946-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
656	.4358-01	.2340-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
656	24.480	2.4590	2197.0	.1133	.1372	.1372	.9000	.4937-02	.5978-02	3.757	25.88	564.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 903

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH36)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
638	.5027	7.900	39.93	-.1035-01	99.87	1249.	92.62	.1110-01	.4849	3727.	.3235-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
638	.1705-01	.5705-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAH/TO	TAH/TO	H(TO) BTU/R FT2SEC	H(TAH) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
638	24.480	2.4590	2197.0	.4532-01	.5486-01	.5486-01	.9000	.7728-03	.9355-03	.5549	3.889	530.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 904

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH36)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
664	1.016	7.940	39.97	-.4646-06	207.5	1261.	92.64	.2232-01	.9849	3746.	.6503-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
664	.2434-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
664	24.480	2.4590	2197.0	.4871-01	.5893-01	.5893-01	.9000	.1186-02	.1434-02	.8616	6.029	533.9

DATE 23 FEB 80

OHB4B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 905

OHB4B 60-0 LOWER ELEVON FUSELAGE

(R4UH36)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
644	2.002	7.980	39.98	-.1040-01	434.5	1301.	94.69	.4523-01	2.016	3807.	.1289-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
644	.3502-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
644	24.480	2.4590	2197.0	.6779-01	.8198-01	.8198-01	.9000	.2374-02	.2871-02	1.783	12.38	549.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 906

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH36)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
654	2.991	7.990	40.02	.6962-02	669.5	1325.	96.21	.6914-01	3.090	3842.	.1940-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
654	.4348-01	.2344-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
654	24.480	2.4590	2197.0	.1130	.1369	.1369	.9000	.4912-02	.5954-02	3.717	25.57	567.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 907

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH37)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BOFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
640	.5043	7.900	39.93	-.1035-01	99.93	1247.	92.47	.1111-01	.4852	3724.	.3242-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
640	.1705-01	.5698-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
640	24.480	2.4590	2197.0	.4608-01	.5572-01	.5572-01	.9000	.7857-03	.9500-03	.5664	3.980	525.8



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 908

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH37)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
662	1.024	7.940	39.97	-.4645-06	207.3	1253.	92.05	.2230-01	.9840	3734.	.6538-03	.7407-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
662	.2430-01	.4014-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
662	24.480	2.4590	2197.0	.4796-01	.5814-01	.5814-01	.9000	.1166-02	.1413-02	.8341	5.827	537.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 909

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH37)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
642	2.013	7.980	39.98	-.1040-01	434.8	1297.	94.40	.4526-01	2.018	3801.	.1294-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
642	.3501-01	.2863-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
642	24.480	2.4590	2197.0	.7242-01	.8752-01	.8752-01	.9000	.2535-02	.3064-02	1.906	13.26	545.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 910

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH37)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
652	2.983	7.990	40.04	.6976-02	671.4	1330.	96.58	.6934-01	3.098	3849.	.1938-02	.7772-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
652	.4357-01	.2346-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
652	24.480	2.4590	2197.0	.1106	.1340	.1340	.9000	.4818-02	.5837-02	3.670	25.25	567.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 911

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH38)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
632	.5132	7.900	39.95	.1729-01	101.7	1247.	92.47	.1130-01	.4938	3724.	.3299-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
632	.1720-01	.5648-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
632	24.480	2.4590	2197.0	.5345-01	.6473-01	.6473-01	.9000	.9195-03	.1113-02	.6579	4.611	531.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 912

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH38)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
606	.9965	7.940	39.96	.1384-01	204.8	1266.	93.00	.2203-01	.9721	3754.	.6392-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
606	.2420-01	.4064-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
606	24.480	2.4590	2197.0	.5283-01	.6392-01	.6392-01	.9000	.1278-02	.1547-02	.9325	6.518	536.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 913

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH39)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
604	2.022	7.980	40.00	.1389-01	434.9	1293.	94.11	.4527-01	2.018	3795.	.1298-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
604	.3499-01	.2858-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
604	24.480	2.4590	2197.0	.8720-01	.1058	.1058	.9000	.3052-02	.3702-02	2.245	15.53	556.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 914

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH38)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
582	2.997	7.990	40.06	.1397-01	671.5	1326.	96.29	.6935-01	3.099	3843.	.1944-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
582	.4355-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
582	24.480	2.4590	2197.0	.1459	.1777	.1777	.9000	.6355-02	.7738-02	4.714	32.17	583.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 915

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH39)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = -5.000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
622	.5001	7.900	39.93	.1380-01	99.35	1249.	92.62	.1104-01	.4824	3727.	.3218-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
622	.1701-01	.5720-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
622	24.480	2.4590	2197.0	.5025-01	.6077-01	.6077-01	.9000	.8546-03	.1033-02	.6169	4.332	526.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 916

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH39)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BOFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
616	.9964	7.940	39.97	.1731-01	204.3	1264.	92.86	.2197-01	.9697	3751.	.6387-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
616	.2416-01	.4065-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
616	24.480	2.4590	2197.0	.5608-01	.6785-01	.6785-01	.9000	.1355-02	.1639-02	.9864	6.896	535.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 917

(R4UH39)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
594	2.010	7.980	39.99	.1735-01	435.8	1300.	94.62	.4537-01	2.022	3805.	.1294-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
594	.3506-01	.2864-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
594	24.480	2.4590	2197.0	.8150-01	.9883-01	.9883-01	.9000	.2858-02	.3465-02	2.118	14.64	558.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 918  
(R4UH39)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
580	2.988	7.990	39.99	.1041-01	669.5	1326.	96.29	.6914-01	3.090	3843.	.1938-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
580	.4349-01	.2345-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
580	24.480	2.4590	2197.0	.1499	.1828	.1828	.9000	.6519-02	.7948-02	4.807	32.73	588.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 919

(R4UH40)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
624	.5083	7.900	39.94	.1381-01	101.7	1255.	93.06	.1130-01	.4938	3736.	.3278-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
624	.1722-01	.5670-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
624	24.480	2.4590	2197.0	.5354-01	.6474-01	.6474-01	.9000	.9220-03	.1115-02	.6686	4.689	529.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 920

(R4U40)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
614	1.020	7.940	39.96	.1384-01	207.9	1259.	92.49	.2236-01	.9868	3743.	.6525-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
614	.2436-01	.4020-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
614	24.480	2.4590	2197.0	.5288-01	.6408-01	.6408-01	.9000	.1288-02	.1561-02	.9281	6.480	538.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 921

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH40)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
596	2.000	7.980	40.02	.1392-01	434.7	1302.	94.76	.4525-01	2.017	3808.	.1289-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
596	.3503-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
596	24.480	2.4590	2197.0	.8267-01	.1003	.1003	.9000	.2896-02	.3512-02	2.148	14.83	560.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 922

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH40)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
578	3.027	7.990	40.06	.6985-02	669.7	1315.	95.49	.6916-01	3.091	3827.	.1935-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
578	.4343-01	.2333-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
578	24.480	2.4590	2197.0	.1506	.1842	.1842	.9000	.6542-02	.8001-02	4.717	32.04	593.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 923

(R40H41)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 5.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
626	.5125	7.900	39.93	.1380-01	101.2	1244.	92.25	.1125-01	.4913	3720.	.3290-03	.7423-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
626	.1715-01	.5654-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
626	24.480	2.4590	2197.0	.5117-01	.6197-01	.6197-01	.9000	.8776-03	.1063-02	.6264	4.393	529.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 924

(R4UH41)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
612	1.002	7.940	39.96	.1384-01	206.0	1266.	93.00	.2216-01	.9778	3754.	.6430-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
612	.2427-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
612	24.480	2.4590	2197.0	.5528-01	.6689-01	.6689-01	.9000	.1342-02	.1623-02	.9783	6.837	536.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 925

(R4UH41)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 5.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
598	2.004	7.980	40.02	.1392-01	434.4	1300.	94.62	.4522-01	2.016	3805.	.1290-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
598	.3501-01	.2869-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
598	24.480	2.4590	2197.0	.8909-01	.1079	.1079	.9000	.3119-02	.3777-02	2.326	16.11	553.9

(R40H41)

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

OH84B 60-0 LOWER ELEVON FUSELAGE

LOWER ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = 5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
584	2.991	7.990	40.06	.1397-01	669.5	1325.	96.21	.6914-01	3.090	3842.	.1940-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
584	.4348-01	.2344-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
584	24.480	2.4590	2197.0	.1517	.1847	.1847	.9000	.6598-02	.8031-02	4.896	33.43	582.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 927

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH42)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
620	.5135	7.900	39.96	.1383-01	100.1	1233.	91.43	.1112-01	.4858	3703.	.3282-03	.7357-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
620	.1703-01	.5656-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
620	24.480	2.4590	2197.0	.5046-01	.6119-01	.6119-01	.9000	.8592-03	.1042-02	.6039	4.235	529.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 928

(R4UH42)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
618	.9977	7.940	39.97	.1384-01	204.8	1265.	92.93	.2203-01	.9721	3752.	.6397-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
618	.2419-01	.4062-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
618	24.480	2.4590	2197.0	.5533-01	.6698-01	.6698-01	.9000	.1339-02	.1620-02	.9740	6.805	537.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 929

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH42)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 8.000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
592	2.010	7.980	40.00	.1736-01	434.8	1298.	94.47	.4526-01	2.018	3802.	.1293-02	.7602-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
592	.3501-01	.2865-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
592	24.480	2.4590	2197.0	.8309-01	.1007	.1007	.9000	.2909-02	.3524-02	2.163	14.99	554.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 930

(R4UH42)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
590	2.993	7.990	40.06	.1397-01	671.4	1327.	96.36	.6934-01	3.098	3845.	.1942-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
590	.4356-01	.2343-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
590	24.480	2.4590	2197.0	.1511	.1839	.1839	.9000	.6583-02	.8011-02	4.900	33.47	582.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 931

(R4UH43)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
628	.5138	7.900	39.96	.1730-01	101.2	1242.	92.10	.1125-01	.4914	3717.	.3296-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
628	.1715-01	.5648-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
628	24.480	2.4590	2197.0	.5398-01	.6537-01	.6537-01	.9000	.9257-03	.1121-02	.6601	4.631	528.7



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 932

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH43)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
610	1.015	7.940	39.97	.1038-01	207.4	1261.	92.64	.2231-01	.9844	3746.	.6499-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
610	.2434-01	.4029-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
610	24.480	2.4590	2197.0	.5295-01	.6411-01	.6411-01	.9000	.1288-02	.1560-02	.9330	6.521	536.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 933

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH43)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
600	1.993	7.980	39.99	.1388-01	435.6	1307.	95.13	.4534-01	2.021	3815.	.1287-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
600	.3509-01	.2874-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
600	24.480	2.4590	2197.0	.8780-01	.1062	.1062	.9000	.3081-02	.3728-02	2.319	16.06	554.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 934

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH43)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
586	2.987	7.990	40.06	.1397-01	669.2	1326.	96.29	.6911-01	3.088	3843.	.1937-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
586	.4348-01	.2346-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
586	24.480	2.4590	2197.0	.1469	.1789	.1789	.9000	.6389-02	.7780-02	4.737	32.33	584.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 935

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH44)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
630	.5170	7.900	39.96	.1729-01	102.2	1245.	92.32	.1136-01	.4963	3721.	.3321-03	.7429-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
630	.1724-01	.5628-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO.	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
630	24.480	2.4590	2197.0	.4703-01	.5699-01	.5699-01	.9000	.8108-03	.9825-03	.5773	4.042	532.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 936

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH44)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
608	.9985	7.940	39.95	.1383-01	207.4	1275.	93.67	.2231-01	.9844	3767.	.6428-03	.7537-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
608	.2438-01	.4056-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
608	24.480	2.4590	2197.0	.5499-01	.6650-01	.6650-01	.9000	.1341-02	.1621-02	.9880	6.901	537.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 937

(R4UH44)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
602	1.989	7.980	39.99	.1735-01	434.8	1307.	95.13	.4526-01	2.018	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
602	.3506-01	.2877-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
602	24.480	2.4590	2197.0	.8458-01	.1025	.1025	.9000	.2965-02	.3594-02	2.213	15.28	560.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 938

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH44)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 23.50    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
588	3.015	7.990	40.06	.1397-01	672.4	1322.	96.00	.6944-01	3.103	3838.	.1952-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
588	.4356-01	.2336-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
588	24.480	2.4590	2197.0	.1493	.1818	.1818	.9000	.6504-02	.7919-02	4.809	32.84	582.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 939

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH45)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
682	.5028	7.900	39.95	-.1036-01	100.6	1255.	93.06	.1118-01	.4884	3736.	.3242-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
682	.1713-01	.5701-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
682	24.480	2.4590	2197.0	.6482-01	.7848-01	.7848-01	.9000	.1110-02	.1344-02	.8005	5.603	533.6



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 940

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH45)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = -5.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
668	1.013	7.940	39.97	- .1038-01	207.0	1261.	92.64	.2226-01	.9825	3746.	.6487-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
668	.2431-01	.4033-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
668	24.480	2.4590	2197.0	.6580-01	.7985-01	.7985-01	.9000	.1600-02	.1941-02	1.146	7.976	544.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 941

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4U45)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BOFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
688	1.999	7.980	40.00	-.6947-02	434.9	1303.	94.84	.4527-01	2.018	3810.	.1288-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
688	.3504-01	.2871-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
688	24.480	2.4590	2197.0	.1087	.1319	.1319	.9000	.3808-02	.4622-02	2.817	19.42	563.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 942

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH45)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
702	2.996	7.990	40.05	-6978-02	668.9	1323.	96.07	.6908-01	3.087	3839.	.1941-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
702	.4345-01	.2343-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
702	24.480	2.4590	2197.0	.2073	.2543	.2543	.9000	.9009-02	.1105-01	6.447	43.50	607.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 943

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH46)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
680	.5032	7.900	39.93	-.1034-01	100.7	1255.	93.06	.1119-01	.4888	3736.	.3245-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
680	.1713-01	.5699-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
680	24.480	2.4590	2197.0	.6537-01	.7922-01	.7922-01	.9000	.1120-02	.1357-02	.8035	5.614	537.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 944

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH46)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
666	1.005	7.940	39.97	-.6927-02	206.0	1264.	92.86	.2216-01	.9778	3751.	.6440-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
666	.2426-01	.4048-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
666	24.480	2.4590	2197.0	.6298-01	.7652-01	.7652-01	.9000	.1528-02	.1857-02	1.092	7.579	549.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 945

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH46)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
690	2.005	7.980	40.00	-.6947-02	436.2	1303.	94.84	.4541-01	2.024	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
690	.3509-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
690	24.480	2.4590	2197.0	.1130	.1374	.1374	.9000	.3967-02	.4823-02	2.911	20.01	568.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 946

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH46)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
700	2.995	7.990	40.04	-.6974-02	668.7	1323.	96.07	.6906-01	3.086	3839.	.1940-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
700	.4345-01	.2343-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
700	24.480	2.4590	2197.0	.2176	.2663	.2663	.9000	.9455-02	.1157-01	6.836	46.29	599.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 947

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH47)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BOFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
684	.5058	7.900	39.94	-.6904-02	101.0	1253.	92.91	.1122-01	.4902	3733.	.3259-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
684	.1715-01	.5685-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
684	24.480	2.4590	2197.0	.6532-01	.7915-01	.7915-01	.9000	.1120-02	.1358-02	.8035	5.618	535.6



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH47)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 8.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
670	1.020	7.940	39.97	-.1039-01	207.6	1258.	92.42	.2233-01	.9854	3742.	.6521-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
670	.2434-01	.4021-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
670	24.480	2.4590	2197.0	.6294-01	.7636-01	.7636-01	.9000	.1532-02	.1858-02	1.096	7.639	542.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

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(R4UH47)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 8.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
686	1.998	7.980	39.98	-.6934-02	434.7	1303.	94.84	.4525-01	2.017	3810.	.1288-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
686	.3503-01	.2872-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
686	24.480	2.4590	2197.0	.1137	.1381	.1381	.9000	.3983-02	.4837-02	2.938	20.24	565.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 950

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH47)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
704	2.994	7.990	40.01	-.6953-02	669.4	1324.	96.14	.6913-01	3.089	3841.	.1941-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
704	.4348-01	.2343-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
704	24.480	2.4590	2197.0	.2224	.2719	.2719	.9000	.9668-02	.1182-01	7.033	47.71	596.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

OH84B 60-0 LOWER ELEVON FUSELAGE

LOWER ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BOFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
676	.5094	7.900	39.93	-.6898-02	101.6	1252.	92.84	.1129-01	.4931	3732.	.3281-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
676	.1720-01	.5666-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R F*2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
676	24.480	2.4590	2197.0	.5760-01	.6984-01	.6984-01	.9000	.9908-03	.1201-02	.7075	4.942	537.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 952

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH48)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
674	1.007	7.940	39.97	-1.1039-01	206.5	1264.	92.86	.2221-01	.9801	3751.	.6456-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
674	.2429-01	.4043-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/T0	TAW/T0	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
674	24.480	2.4590	2197.0	.6302-01	.7640-01	.7640-01	.9000	.1531-02	.1856-02	1.104	7.695	542.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 953

(R4UH4B)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
692	2.004	7.980	40.00	-6947-02	436.0	1303.	94.84	.4539-01	2.023	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
692	.3509-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
692	24.480	2.4590	2197.0	.1025	.1248	.1248	.9000	.3597-02	.4377-02	2.630	18.05	571.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 954

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH48)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
698	2.999	7.990	40.02	-.6958-02	669.0	1322.	96.00	.6909-01	3.087	3838.	.1942-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
698	.4345-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
698	24.480	2.4590	2197.0	.2200	.2694	.2694	.9000	.9561-02	.1170-01	6.902	46.74	599.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 955

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH49)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
678	.5076	7.900	39.96	-.1038-01	101.4	1254.	92.99	.1127-01	.4925	3735.	.3272-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
678	.1720-01	.5675-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
678	24.480	2.4590	2197.0	.6410-01	.7772-01	.7772-01	.9000	.1102-02	.1336-02	.7884	5.504	538.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 95E

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4U49)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
672	1.016	7.940	39.97	-.6925-02	206.9	1258.	92.42	.2225-01	.9821	3742.	.6499-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
672	.2430-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
672	24.480	2.4590	2197.0	.6275-01	.7610-01	.7610-01	.9000	.1525-02	.1849-02	1.093	7.623	540.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

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(R4UM49)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
694	1.988	7.980	39.99	-.6937-02	433.4	1305.	94.98	.4512-01	2.011	3813.	.1282-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
694	.3499-01	.2879-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
694	24.480	2.4590	2197.0	.1108	.1347	.1347	.9000	.3878-02	.4712-02	2.858	19.66	567.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 958

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH49)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BOFLAP = 23.50 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
696	3.000	7.990	40.03	-.6964-02	669.2	1322.	96.00	.6911-01	3.088	3838.	.1943-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
696	.4346-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
696	24.480	2.4590	2197.0	.2132	.2616	.2616	.9000	.9263-02	.1137-01	6.611	44.58	608.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 959

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH50)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
768	.5101	7.900	39.98	-.3466-02	101.6	1251.	92.77	.1129-01	.4932	3730.	.3284-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
768	.1720-01	.5663 01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
768	24.480	2.4590	2197.0	.6878-01	.8345-01	.8345-01	.9000	.1183-02	.1435-02	.8418	5.875	539.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 960

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH50)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
758	1.014	7.940	39.99	-1.4651-06	208.4	1266.	93.00	.2242-01	.9894	3754.	.6506-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
758	.2441-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
758	24.480	2.4590	2197.0	.7699-01	.9361-01	.9361-01	.9000	.1880-02	.2285-02	1.340	9.288	552.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 961

(R4UH50)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
756	2.005	7.980	40.03	-46.73-06	434.6	1300.	94.62	.4525-01	2.017	3805.	.1291-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
756	.3502-01	.2868-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
756	24.480	2.4590	2197.0	.1323	.1611	.1611	.9000	.4634-02	.5641-02	3.372	23.14	572.1

DATE 23 FEB 80

OM84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 962

OM84B 60-0 LOWER ELEVON FUSELAGE

(R4UH50)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
746	3.012	7.990	40.06	-.3495-02	670.4	1320.	95.85	.6923-01	3.094	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
746	.4348-01	.2337-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
746	24.480	2.4590	2197.0	.2551	.3132	.3132	.9000	.1109-01	.1362-01	7.898	53.27	607.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 963

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH51)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
766	.5080	7.900	39.98	-.3466-02	101.0	1250.	92.69	.1123-01	.4905	3729.	.3269-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
766	.1715-01	.5675-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
766	24.480	2.4590	2197.0	.7215-01	.8757-01	.8757-01	.9000	.1238-02	.1502-02	.8784	6.128	539.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 964

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH51)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
760	1.001	7.940	39.99	-.4651-06	206.5	1269.	93.22	.2221-01	.9803	3758.	.6431-03	.7502-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
760	.2431-01	.4053-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
760	24.480	2.4590	2197.0	.7991-01	.9710-01	.9710-01	.9000	.1943-02	.2361-02	1.392	9.649	552.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 965

(R4UH51)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
754	2.004	7.980	40.06	-1.4686-06	437.0	1305.	94.98	.4550-01	2.028	3813.	.1293-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
754	.3514-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
754	24.480	2.4590	2197.0	.1362	.1656	.1656	.9000	.4785-02	.5818-02	3.519	24.19	569.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 966

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH51)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
748	2.974	7.990	40.07	-4689-06	661.9	1320.	95.85	.6835-01	3.055	3835.	.1925-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
748	.4321-01	.2352-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
748	24.480	2.4590	2197.0	.2557	.3134	.3134	.9000	.1105-01	.1354-01	7.910	53.46	603.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

PAGE 967  
(R4UH52)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BOFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
764	.5066	7.900	39.98	-.4647-06	100.9	1251.	92.77	.1121-01	.4898	3730.	.3262-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
764	.1714-01	.5682-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
764	24.480	2.4590	2197.0	.6804-01	.8256-01	.8256-01	.9000	.1166-02	.1415-02	.8295	5.788	639.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 968

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH52)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 23.50    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
762	1.002	7.940	39.99	-4654-06	205.6	1265.	92.93	.2212-01	.9760	3752.	.6424-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
762	.2424-01	.4054-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
762	24.480	2.4590	2197.0	.7542-01	.9149-01	.9149-01	.9000	.1829-02	.2218-02	1.316	9.162	544.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER ELEVON FUSELAGE

LOWER ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
752	2.017	7.980	40.06	-.4685-06	436.2	1298.	94.47	.4541-01	2.024	3802.	.1297-02	.7602-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
752	.3507-01	.2860-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
752	24.480	2.4590	2197.0	.1318	.1605	.1605	.9000	.4622-02	.5630-02	3.348	22.97	573.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 970

OH84B 60-0 LOWER ELEVON FUSELAGE

(R4UH52)

LOWER ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BOFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
750	3.008	7.990	40.07	- .3496-02	673.1	1325.	96.21	.6951-01	3.106	3842.	.1950-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
750	.4360-01	.2338-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
750	24.480	2.4590	2197.0	.2562	.3140	.3140	.9000	.1117-01	.1369-01	8.044	54.34	604.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U102)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
117	3.002	7.990	29.96	-4.030	671.8	1325.	96.21	.6938-01	3.100	3842.	.1946-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
117	.4356-01	.2340-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
117	5.5650	24.576	2320.0	.7336-02	.8813-02	.8813-02	.9000	.3195-03	.3839-03	.2525	1.916	534.4
117	5.5650	25.476	2322.0	.1289-01	.1550-01	.1550-01	.9000	.5617-03	.6753-03	.4423	3.662	537.2
117	5.5650	26.038	2323.0	.1027-01	.1233-01	.1233-01	.9000	.4473-03	.5372-03	.3540	2.735	533.2



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 972

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U102)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
130	3.691	8.000	29.96	-4.050	853.4	1351.	97.87	.8742-01	3.916	3880.	.2411-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
130	.4912-01	.2107-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
130	5.5650	24.576	2320.0	.8138-02	.9769-02	.9769-02	.9000	.3998-03	.4799-03	.3235	2.446	541.6
130	5.5650	25.476	2322.0	.1012-01	.1216-01	.1216-01	.9000	.4972-03	.5971-03	.4013	3.312	543.6
130	5.5650	26.038	2323.0	.8397-02	.1007-01	.1007-01	.9000	.4125-03	.4948-03	.3348	2.579	538.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U103)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
153	1.989	7.980	29.95	-2.020	434.7	1307.	95.13	.4526-01	2.017	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
153	.3505-01	.2877-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
153	5.5650	24.576	2320.0	.1319-02	.1586-02	.1586-02	.9000	.4624-04	.5560-04	.3591-01	.2731	530.2
153	5.5650	25.476	2322.0	.2241-02	.2694-02	.2694-02	.9000	.7856-04	.9443-04	.6108-01	.5078	529.2
153	5.5650	26.038	2323.0	.1847-02	.2219-02	.2219-02	.9000	.6474-04	.7779-04	.5043-01	.3907	527.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U103)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPCBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
114	3.016	7.990	29.95	-2.018	673.4	1323.	96.07	.6954-01	3.108	3839.	.1954-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
114	.4360-01	.2335-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
114	5.5650	24.576	2320.0	.2962-02	.3556-02	.3556-02	.9000	.1291-03	.1550-03	.1022	.7768	531.2
114	5.5650	25.476	2322.0	.4684-02	.5623-02	.5623-02	.9000	.2042-03	.2452-03	.1618	1.344	530.6
114	5.5650	26.038	2323.0	.4274-02	.5129-02	.5129-02	.9000	.1864-03	.2236-03	.1480	1.146	528.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U103)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
127	3.689	8.000	29.96	-2.010	854.0	1352.	97.95	.8748-01	3.919	3881.	.2411-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
127	.4915-01	.2107-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
127	5.5650	24.576	2320.0	.3198-02	.3836-02	.3836-02	.9000	.1572-03	.1885-03	.1278	.9681	538.4
127	5.5650	25.476	2322.0	.2690-02	.3225-02	.3225-02	.9000	.1322-03	.1585-03	.1078	.8927	536.4
127	5.5650	26.038	2323.0	.2848-02	.3412-02	.3412-02	.9000	.1399-03	.1677-03	.1144	.8828	534.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U104)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
150	1.973	7.980	29.94	-1.005	435.5	1316.	95.78	.4534-01	2.021	3829.	.1278-02	.7708-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
150	.3513-01	.2886-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
150	5.5650	24.576	2320.0	.2786-03	.3346-03	.3346-03	.9000	.9787-05	.1175-04	.7696-02	.5855-01	529.4
150	5.5650	25.476	2322.0	.8918-03	.1071-02	.1071-02	.9000	.3133-04	.3762-04	.2466-01	.2051	528.6
150	5.5650	26.038	2323.0	.9228-03	.1108-02	.1108-02	.9000	.3242-04	.3891-04	.2555-01	.1979	527.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U104)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -1.000    ELEVON = .0000  
BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
111	2.999	7.990	29.94	-.9974	671.3	1325.	96.21	.6932-01	3.098	3842.	.1945-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
111	.4354-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
111	5.5650	24.576	2320.0	.9073-03	.1089-02	.1089-02	.9000	.3950-04	.4741-04	.3137-01	.2386	530.5
111	5.5650	25.476	2322.0	.1214-02	.1457-02	.1457-02	.9000	.5286-04	.6342-04	.4205-01	.3496	529.2
111	5.5650	26.038	2323.0	.1249-02	.1498-02	.1498-02	.9000	.5438-04	.6523-04	.4333-01	.3356	527.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U104)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -1.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
123	3.686	8.000	29.95	-1.9857	853.2	1352.	97.95	.8740-01	3.915	3881.	.2408-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
123	.4912-01	.2108-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
123	5.5650	24.576	2320.0	.1604-02	.1923-02	.1923-02	.9000	.7881-04	.9445-04	.6436-01	.4883	535.0
123	5.5650	25.476	2322.0	.1855-02	.2222-02	.2222-02	.9000	.9114-04	.1092-03	.7456-01	.6185	533.5
123	5.5650	26.038	2323.0	.1919-02	.2298-02	.2298-02	.9000	.9426-04	.1129-03	.7731-01	.5977	531.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U106)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
11	.5125	7.900	29.95	.4910-02	100.6	1239.	91.88	.1118-01	.4884	3712.	.3284-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
11	.1709-01	.5657-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
11	5.5650	25.476	2322.0	.7751-03	.9414-03	.9414-03	.9000	.1324-04	.1609-04	.9285-02	.7686-01	537.6
11	5.5650	26.038	2323.0	.8149-03	.9896-03	.9896-03	.9000	.1393-04	.1691-04	.9769-02	.7531-01	537.2



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U106)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
48	1.981	7.980	29.96	.2453-02	434.4	1310.	95.35	.4522-01	2.016	3820.	.1280-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
48	.3505-01	.2882-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
48	5.5650	24.576	2320.0	.8747-04	.1053-03	.1053-03	.9000	.3066-05	.3690-05	.2375-02	.1801-01	535.2
48	5.5650	25.476	2322.0	.9540-03	.1148-02	.1148-02	.9000	.3344-04	.4024-04	.2592-01	.2149	534.5
48	5.5650	26.038	2323.0	.1051-02	.1264-02	.1264-02	.9000	.3684-04	.4432-04	.2859-01	.2208	533.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U106)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
77	3.028	7.990	29.98	-.2446-02	670.1	1315.	95.49	.6920-01	3.092	3827.	.1956-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
77	.4345-01	.2332-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
77	5.5650	24.576	2320.0	.3508-03	.4215-03	.4215-03	.9000	.1524-04	.1831-04	.1196-01	.9096-01	530.1
77	5.5650	25.476	2322.0	.6487-03	.7790-03	.7790-03	.9000	.2818-04	.3384-04	.2215-01	.1842	528.8
77	5.5650	26.038	2323.0	.8912-03	.1070-02	.1070-02	.9000	.3872-04	.4648-04	.3047-01	.2361	527.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U106)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
120	3.698	8.000	29.97	.7342-02	853.1	1349.	97.73	.8738-01	3.915	3877.	.2413-02	.7864-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
120	.4910-01	.2105-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
120	5.5650	24.576	2320.0	.8089-03	.9694-03	.9694-03	.9000	.3972-04	.4760-04	.3237-01	.2457	533.7
120	5.5650	25.476	2322.0	.8161-03	.9776-03	.9776-03	.9000	.4007-04	.4800-04	.3272-01	.2716	532.2
120	5.5650	26.038	2323.0	.1294-02	.1549-02	.1549-02	.9000	.6353-04	.7607-04	.5196-01	.4018	530.8

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U108)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = 1.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
51	2.021	7.980	29.94	1.035	434.5	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
51	.3498-01	.2859-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
51	5.5650	24.576	2320.0	.5085-04	.6131-04	.6131-04	.9000	.1779-05	.2145-05	.1347-02	.1022-01	535.2
51	5.5650	25.476	2322.0	.7341-03	.8849-03	.8849-03	.9000	.2568-04	.3095-04	.1948-01	.1616	534.0
51	5.5650	26.038	2323.0	.9138-03	.1101-02	.1101-02	.9000	.3196-04	.3852-04	.2428-01	.1876	533.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U110)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
55	2.000	7.980	29.95	2.036	435.1	1303.	94.84	.4530-01	2.019	3810.	.1289-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
55	.3505-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
55	5.5650	24.576	2320.0	.2312-03	.2776-03	.2776-03	.9000	.8102-05	.9729-05	.6312-02	.4816-01	523.7
55	5.5650	25.476	2322.0	.6964-03	.8360-03	.8360-03	.9000	.2441-04	.2930-04	.1904-01	.1588	522.7
55	5.5650	26.038	2323.0	.8410-03	.1009-02	.1009-02	.9000	.2948-04	.3538-04	.2302-01	.1789	521.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U111)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
165	2.002	7.980	34.98	-4.052	435.0	1302.	94.76	.4529-01	2.019	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
165	.3504-01	.2869-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
165	5.5650	24.576	2320.0	.7167-03	.8628-03	.8628-03	.9000	.2511-04	.3023-04	.1930-01	.1466	533.1
165	5.5650	25.476	2322.0	.1568-02	.1887-02	.1887-02	.9000	.5494-04	.6614-04	.4227-01	.3508	532.4
165	5.5650	26.038	2323.0	.1487-02	.1790-02	.1790-02	.9000	.5212-04	.6272-04	.4017-01	.3106	531.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U111)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPD BRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
108	2.984	7.990	34.98	-4.050	670.1	1328.	96.43	.6920-01	3.092	3846.	.1937-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
108	.4352-01	.2346-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
108	5.5650	24.576	2320.0	.1669-02	.2004-02	.2004-02	.9000	.7263-04	.8720-04	.5771-01	.4382	533.1
108	5.5650	25.476	2322.0	.1882-02	.2259-02	.2259-02	.9000	.8191-04	.9831-04	.6518-01	.5411	531.9
108	5.5650	26.038	2323.0	.2128-02	.2554-02	.2554-02	.9000	.9263-04	.1111-03	.7384-01	.5711	530.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U111)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
142	3.684	8.000	35.01	-4.001	853.7	1353.	98.02	.8745-01	3.918	3883.	.2408-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
142	.4914-01	.2108-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
142	5.5650	24.576	2320.0	.3631-02	.4357-02	.4357-02	.9000	.1784-03	.2141-03	.1448	1.095	541.4
142	5.5650	25.476	2322.0	.4832-02	.5798-02	.5798-02	.9000	.2375-03	.2849-03	.1929	1.595	540.3
142	5.5650	26.038	2323.0	.4634-02	.5557-02	.5557-02	.9000	.2277-03	.2731-03	.1855	1.430	538.0



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U112)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
162	2.007	7.980	35.00	-1.998	435.0	1300.	94.62	.4529-01	2.019	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
162	.3503-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
162	5.5650	24.576	2320.0	.1262-03	.1519-03	.1519-03	.9000	.4421-05	.5320-05	.3400-02	.2585-01	530.6
162	5.5650	25.476	2322.0	.1065-02	.1282-02	.1282-02	.9000	.3732-04	.4490-04	.2875-01	.2389	529.4
162	5.5650	26.038	2323.0	.1208-02	.1452-02	.1452-02	.9000	.4231-04	.5088-04	.3264-01	.2528	528.2

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U112)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
105	3.010	7.990	35.02	-1.985	670.5	1321.	95.92	.6924-01	3.094	3836.	.1948-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
105	.4349-01	.2338-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
105	5.5650	24.576	2320.0	.8952-03	.1076-02	.1076-02	.9000	.3894-04	.4679-04	.3065-01	.2327	533.5
105	5.5650	25.476	2322.0	.1136-02	.1364-02	.1364-02	.9000	.4939-04	.5932-04	.3896-01	.3235	531.8
105	5.5650	26.038	2323.0	.1529-02	.1836-02	.1836-02	.9000	.6652-04	.7987-04	.5257-01	.4067	530.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U112)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
139	3.682	8.000	35.03	-1.973	853.3	1353.	98.02	.8741-01	3.916	3883.	.2407-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
139	.4913-01	.2109-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
139	5.5650	24.576	2320.0	.1187-02	.1424-02	.1424-02	.9000	.5831-04	.6995-04	.4739-01	.3586	539.9
139	5.5650	25.476	2322.0	.1444-02	.1732-02	.1732-02	.9000	.7097-04	.8509-04	.5784-01	.4788	537.6
139	5.5650	26.038	2323.0	.2200-02	.2637-02	.2637-02	.9000	.1081-03	.1295-03	.8825-01	.6807	536.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U113)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000  
BOFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
159	2.024	7.980	35.01	-.9963	436.7	1296.	94.33	.4547-01	2.027	3799.	.1301-02	.7590-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
159	.3508-01	.2856-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
159	5.5650	24.576	2320.0	.3849-03	.4632-03	.4632-03	.9000	.1350-04	.1625-04	.1035-01	.7880-01	528.9
159	5.5650	25.476	2322.0	.1102-02	.1326-02	.1326-02	.9000	.3867-04	.4653-04	.2968-01	.2469	528.3
159	5.5650	26.038	2323.0	.1154-02	.1388-02	.1388-02	.9000	.4047-04	.4868-04	.3110-01	.2410	527.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U113)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
102	3.006	7.990	35.02	-.9887	672.7	1325.	96.21	.6947-01	3.104	3842.	.1949-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
102	.4359-01	.2339-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Z0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
102	5.5650	24.576	2320.0	.4941-03	.5940-03	.5940-03	.9000	.2154-04	.2589-04	.1696-01	.1285	537.2
102	5.5650	25.476	2322.0	.1101-02	.1323-02	.1323-02	.9000	.4798-04	.5765-04	.3788-01	.3139	535.2
102	5.5650	26.038	2323.0	.1540-02	.1850-02	.1850-02	.9000	.6714-04	.8064-04	.5310-01	.4101	533.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U113)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
136	3.699	8.000	35.06	-.9697	856.1	1352.	97.95	.8769-01	3.929	3881.	.2416-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
136	.4921-01	.2104-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
136	5.5650	24.576	2320.0	.7560-03	.9069-03	.9069-03	.9000	.3720-04	.4462-04	.3023-01	.2289	539.1
136	5.5650	25.476	2322.0	.1333-02	.1598-02	.1598-02	.9000	.6559-04	.7863-04	.5344-01	.4425	536.9
136	5.5650	26.038	2323.0	.2095-02	.2511-02	.2511-02	.9000	.1031-03	.1235-03	.8413-01	.6491	535.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U114)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
14	.5200	7.900	34.96	.2136-02	102.3	1241.	92.02	.1137-01	.4968	3715.	.3335-03	.7405-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
14	.1724-01	.5615-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
14	5.5650	24.576	2320.0	.2639-03	.3204-03	.3204-03	.9000	.4549-05	.5523-05	.3201-02	.2428-01	537.1
14	5.5650	25.476	2322.0	.1201-02	.1458-02	.1458-02	.9000	.2071-04	.2514-04	.1458-01	.1208	536.5
14	5.5650	26.038	2323.0	.1353-02	.1642-02	.1642-02	.9000	.2332-04	.2830-04	.1644-01	.1268	535.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R40114)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
61	2.001	7.980	34.99	.9426-07	435.2	1303.	94.84	.4531-01	2.020	3810.	.1289-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
61	.3505-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Z0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R* TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
61	5.5650	24.576	2320.0	.3041-03	.3657-03	.3657-03	.9000	.1066-04	.1282-04	.8243-02	.6271-01	529.4
61	5.5650	25.476	2322.0	.1170-02	.1406-02	.1406-02	.9000	.4100-04	.4929-04	.3176-01	.2642	527.9
61	5.5650	26.038	2323.0	.1347-02	.1619-02	.1619-02	.9000	.4723-04	.5676-04	.3665-01	.2841	526.7



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U114)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
80	3.039	7.990	35.01	-.6938-03	670.1	1312.	95.27	.6920-01	3.092	3823.	.1960-02	.7666-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
80	.4343-01	.2329-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
80	5.5650	24.576	2320.0	.6579-03	.7908-03	.7908-03	.9000	.2857-04	.3434-04	.2229-01	.1694	531.5
80	5.5650	25.476	2322.0	.1211-02	.1455-02	.1455-02	.9000	.5259-04	.6319-04	.4111-01	.3417	529.9
80	5.5650	26.038	2323.0	.1538-02	.1848-02	.1848-02	.9000	.6680-04	.8024-04	.5231-01	.4050	528.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 997

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U114)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
133	3.692	8.000	35.03	-.6868-03	854.7	1352.	97.95	.8755-01	3.922	3881.	.2413-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
133	.4917-01	.2106-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
133	5.5650	24.576	2320.0	.3650-03	.4377-03	.4377-03	.9000	.1795-04	.2152-04	.1461-01	.1107	537.8
133	5.5650	25.476	2322.0	.1605-02	.1924-02	.1924-02	.9000	.7892-04	.9459-04	.6441-01	.5337	535.6
133	5.5650	26.038	2323.0	.2367-02	.2836-02	.2836-02	.9000	.1164-03	.1394-03	.9512-01	.7343	534.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 998

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U115)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
202	.5125	7.900	39.95	-10.04	103.5	1263.	93.66	.1151-01	.5026	3748.	.3316-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
202	.1739-01	.5641-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Z0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAH/TO	TAH/TO	H(T0) BTU/R FT2SEC	H(TAH) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
202	5.5650	24.576	2320.0	.7766-03	.9385-03	.9385-03	.9000	.1351-04	.1632-04	.9892-02	.7523-01	530.4
202	5.5650	25.476	2322.0	.3053-02	.3689-02	.3689-02	.9000	.5311-04	.6417-04	.3890-01	.3233	530.2
202	5.5650	26.038	2323.0	.3040-02	.3673-02	.3673-02	.9000	.5288-04	.6389-04	.3877-01	.3001	529.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 999

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U115)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
189	1.002	7.940	39.96	-10.05	203.7	1257.	92.34	.2191-01	.9670	3740.	.6404-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
189	.2410-01	.4057-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
189	5.5650	24.576	2320.0	.1923-02	.2325-02	.2325-02	.9000	.4634-04	.5605-04	.3362-01	.2556	531.2
189	5.5650	25.476	2322.0	.8275-02	.1001-01	.1001-01	.9000	.1995-03	.2414-03	.1443	1.198	533.0
189	5.5650	26.038	2323.0	.1197-01	.1448-01	.1448-01	.9000	.2885-03	.3491-03	.2086	1.611	533.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1000

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U115)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
171	2.002	7.980	39.98	-10.09	434.9	1302.	94.76	.4528-01	2.018	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
171	.3504-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Z0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
171	5.5650	24.576	2320.0	.6388-02	.7700-02	.7700-02	.9000	.2238-03	.2698-03	.1709	1.294	538.1
171	5.5650	25.476	2322.0	.6948-02	.8375-02	.8375-02	.9000	.2435-03	.2934-03	.1860	1.540	537.5
171	5.5650	26.038	2323.0	.6100-02	.7347-02	.7347-02	.9000	.2137-03	.2574-03	.1638	1.264	535.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1001

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U115)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
99	2.993	7.990	40.02	-10.10	670.6	1326.	96.29	.6925-01	3.095	3843.	.1941-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
99	.4353-01	.2343-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Z0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
99	5.5650	24.576	2320.0	.7179-02	.8644-02	.8644-02	.9000	.3125-03	.3762-03	.2443	1.845	543.8
99	5.5650	25.476	2322.0	.7739-02	.9315-02	.9315-02	.9000	.3368-03	.4054-03	.2640	2.180	542.1
99	5.5650	26.038	2323.0	.6534-02	.7859-02	.7859-02	.9000	.2844-03	.3421-03	.2235	1.721	539.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1002

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U117)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
199	.4996	7.900	39.96	-3.996	99.13	1248.	92.54	.1102-01	.4813	3726.	.3213-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
199	.1699-01	.5724-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
199	5.5650	24.576	2320.0	.3859-03	.4667-03	.4667-03	.9000	.6555-05	.7927-05	.4725-02	.3599-01	526.8
199	5.5650	25.476	2322.0	.2155-02	.2606-02	.2606-02	.9000	.3660-04	.4426-04	.2639-01	.2196	526.8
199	5.5650	26.038	2323.0	.2433-02	.2942-02	.2942-02	.9000	.4132-04	.4996-04	.2981-01	.2311	526.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1003

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U117)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MJ LB-SEC /FT2
186	.9941	7.940	39.96	-3.989	203.8	1264.	92.86	.2192-01	.9674	3751.	.6372-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
186	.2413-01	.4070-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
186	5.5650	24.576	2320.0	.1605-03	.1939-03	.1939-03	.9000	.3873-05	.4681-05	.2837-02	.2157-01	531.1
186	5.5650	25.476	2322.0	.2218-02	.2680-02	.2680-02	.9000	.5352-04	.6467-04	.3922-01	.3258	530.8
186	5.5650	26.038	2323.0	.2286-02	.2762-02	.2762-02	.9000	.5518-04	.6666-04	.4049-01	.3133	529.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1004

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U117)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
177	1.998	7.980	39.98	-4.010	434.6	1303.	94.84	.4525-01	2.017	3810.	.1288-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
177	.3503-01	.2872-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
177	5.5650	24.576	2320.0	.9570-03	.1151-02	.1151-02	.9000	.3352-04	.4032-04	.2592-01	.1972	529.6
177	5.5650	25.476	2322.0	.1844-02	.2217-02	.2217-02	.9000	.6460-04	.7767-04	.5001-01	.4159	528.5
177	5.5650	26.038	2323.0	.1906-02	.2291-02	.2291-02	.9000	.6676-04	.8024-04	.5177-01	.4011	527.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1005

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U117)

AFT FUSE.ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
95	2.992	7.990	39.99	-4.021	670.3	1326.	96.29	.6922-01	3.093	3843.	.1940-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
95	.4352-01	.2344-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Z0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
95	5.5650	24.576	2320.0	.1774-02	.2129-02	.2129-02	.9000	.7718-04	.9265-04	.6128-01	.4657	531.7
95	5.5650	25.476	2322.0	.1857-02	.2229-02	.2229-02	.9000	.8082-04	.9700-04	.6423-01	.5335	530.9
95	5.5650	26.038	2323.0	.2456-02	.2946-02	.2946-02	.9000	.1069-03	.1282-03	.8503-01	.6579	529.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1006

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U118)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
BOFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
196	.5017	7.900	39.96	-1.693	100.6	1257.	93.21	.1118-01	.4886	3739.	.3238-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
196	.1713-01	.5706-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
196	5.5650	24.576	2320.0	.6492-03	.7850-03	.7850-03	.9000	.1112-04	.1345-04	.8080-02	.6145-01	536.2
196	5.5650	25.476	2322.0	.1983-02	.2397-02	.2397-02	.9000	.3397-04	.4107-04	.2470-01	.2053	529.7
196	5.5650	26.038	2323.0	.2176-02	.2630-02	.2630-02	.9000	.3728-04	.4506-04	.2713-01	.2101	528.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1007

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U118)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -2.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
183	1.005	7.940	39.96	-2.000	205.1	1260.	92.56	.2206-01	.9736	3745.	.6433-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
183	.2420-01	.4049-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
183	5.5650	24.576	2320.0	.8212-03	.9934-03	.9934-03	.9000	.1987-04	.2404-04	.1444-01	.1096	533.2
183	5.5650	25.476	2322.0	.2131-02	.2577-02	.2577-02	.9000	.5155-04	.6235-04	.3749-01	.3112	532.4
183	5.5650	26.038	2323.0	.2112-02	.2554-02	.2554-02	.9000	.5111-04	.6179-04	.3722-01	.2878	531.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1008

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U118)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
174	1.998	7.980	39.98	-2.000	435.7	1305.	94.98	.4536-01	2.022	3813.	.1289-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
174	.3508-01	.2871-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
174	5.5650	24.576	2320.0	.5718-03	.6872-03	.6872-03	.9000	.2006-04	.2411-04	.1558-01	.1187	527.8
174	5.5650	25.476	2322.0	.1584-02	.1903-02	.1903-02	.9000	.5557-04	.6678-04	.4320-01	.3595	527.3
174	5.5650	26.038	2323.0	.1757-02	.2111-02	.2111-02	.9000	.6165-04	.7407-04	.4799-01	.3720	526.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1009

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U118)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
90	3.013	7.990	40.02	-2.028	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
90	.4349-01	.2337-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
90	5.5650	24.576	2320.0	.9076-03	.1093-02	.1093-02	.9000	.3947-04	.4752-04	.3075-01	.2326	540.7
90	5.5650	25.476	2322.0	.1958-02	.2355-02	.2355-02	.9000	.8514-04	.1024-03	.6650-01	.5502	538.6
90	5.5650	26.038	2323.0	.2542-02	.3057-02	.3057-02	.9000	.1105-03	.1330-03	.8652-01	.6670	537.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1010

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U121)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
193	.5035	7.900	39.99	-1.006	99.91	1248.	92.54	.1110-01	.4851	3726.	.3238-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
193	.1705-01	.5701-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Z0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
193	5.5650	24.576	2320.0	.1689-03	.2045-03	.2045-03	.9000	.2880-05	.3487-05	.2064-02	.1569-01	531.0
193	5.5650	25.476	2322.0	.1718-02	.2079-02	.2079-02	.9000	.2929-04	.3546-04	.2100-01	.1744	530.7
193	5.5650	26.038	2323.0	.1889-02	.2287-02	.2287-02	.9000	.3221-04	.3899-04	.2312-01	.1789	529.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1011

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U121)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
180	1.002	7.940	39.98	-1.002	205.1	1263.	92.78	.2206-01	.9736	3749.	.6418-03	.7466-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
180	.2421-01	.4055-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
180	5.5650	24.576	2320.0	.2690-03	.3255-03	.3255-03	.9000	.6511-05	.7880-05	.4732-02	.3588-01	535.9
180	5.5650	25.476	2322.0	.1929-02	.2334-02	.2334-02	.9000	.4669-04	.5650-04	.3396-01	.2815	535.3
180	5.5650	26.038	2323.0	.1927-02	.2331-02	.2331-02	.9000	.4664-04	.5642-04	.3396-01	.2622	534.5



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1012

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U121)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -1.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
168	2.006	7.980	40.02	-1.016	435.8	1302.	94.76	.4537-01	2.023	3808.	.1292-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.01/5
168	.3507-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
168	5.5650	24.576	2320.0	.4663-03	.5613-03	.5613-03	.9000	.1636-04	.1969-04	.1258-01	.9555-01	532.6
168	5.5650	25.476	2322.0	.1551-02	.1867-02	.1867-02	.9000	.5442-04	.6549-04	.4190-01	.3478	531.8
168	5.5650	26.038	2323.0	.1649-02	.1984-02	.1984-02	.9000	.5785-04	.6960-04	.4460-01	.3450	530.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1013

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U121)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
86	3.010	7.990	40.08	-1.034	669.1	1319.	95.78	.6910-01	3.088	3833.	.1947-02	.7707-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
86	.4344-01	.2338-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
86	5.5650	24.576	2320.0	.8589-03	.1033-02	.1033-02	.9000	.3731-04	.4488-04	.2913-01	.2207	537.7
86	5.5650	25.476	2322.0	.1742-02	.2095-02	.2095-02	.9000	.7566-04	.9098-04	.5923-01	.4908	535.8
86	5.5650	26.038	2323.0	.2255-02	.2711-02	.2711-02	.9000	.9797-04	.1178-03	.7684-01	.5932	534.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1014

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U122)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
17	.5042	7.900	40.02	-.3159-02	99.80	1246.	92.40	.1109-01	.4846	3723.	.3240-03	.7435-07

RUN NUMBER	HREF BTU/R FT <sup>2</sup> SEC	STN NO REF(R) =.0175
17	.1704-01	.5699-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT <sup>2</sup> SEC	H(TAW) BTU/R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
17	5.5650	24.576	2320.0	.7751-03	.9401-03	.9401-03	.9000	.1321-04	.1602-04	.9375-02	.7110-01	535.8
17	5.5650	25.476	2322.0	.1655-02	.2007-02	.2007-02	.9000	.2820-04	.3419-04	.2004-01	.1661	534.9
17	5.5650	26.038	2323.0	.1889-02	.2290-02	.2290-02	.9000	.3219-04	.3901-04	.2291-01	.1769	534.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1015

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U122)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
33	1.016	7.940	40.01	.1050-02	206.6	1257.	92.34	.2223-01	.9808	3740.	.6496-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
33	.2428-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Z0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
33	5.5650	25.476	2322.0	.1959-02	.2370-02	.2370-02	.9000	.4757-04	.5754-04	.3449-01	.2863	531.7
33	5.5650	26.038	2323.0	.1745-02	.2111-02	.2111-02	.9000	.4237-04	.5125-04	.3074-01	.2377	531.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1016

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U122)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
74	2.011	7.980	40.05	-1.1426-06	436.5	1301.	94.69	.4544-01	2.026	3807.	.1295-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
74	.3510-01	.2863-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
74	5.5650	24.576	2320.0	.8007-03	.9639-03	.9639-03	.9000	.2810-04	.3383-04	.2159-01	.1640	532.4
74	5.5650	25.476	2322.0	.1494-02	.1797-02	.1797-02	.9000	.5243-04	.6308-04	.4038-01	.3355	530.5
74	5.5650	26.038	2323.0	.1674-02	.2013-02	.2013-02	.9000	.5874-04	.7065-04	.4532-01	.3508	529.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1017

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U122)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
83	3.029	7.990	40.06	-.1434-06	670.3	1315.	95.49	.6922-01	3.093	3827.	.1957-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
83	.4345-01	.2332-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
83	5.5650	24.576	2320.0	.1108-02	.1333-02	.1333-02	.9000	.4817-04	.5792-04	.3761-01	.2855	533.8
83	5.5650	25.476	2322.0	.1822-02	.2189-02	.2189-02	.9000	.7916-04	.9514-04	.6196-01	.5144	531.9
83	5.5650	26.038	2323.0	.2279-02	.2738-02	.2738-02	.9000	.9902-04	.1190-03	.7763-01	.6005	530.7

DATE 23 FEB 90

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1018

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U122)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
146	3.671	8.000	40.07	-.1071-02	851.7	1354.	98.09	.8724-01	3.908	3884.	.2400-02	.7893-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
146	.4909-01	.2112-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
146	5.5650	24.576	2320.0	.1376-02	.1651-02	.1651-02	.9000	.6753-04	.8105-04	.5481-01	.4143	542.1
146	5.5650	25.476	2322.0	.2096-02	.2514-02	.2514-02	.9000	.1029-03	.1234-03	.8379-01	.6930	539.5
146	5.5650	26.038	2323.0	.3174-02	.3806-02	.3806-02	.9000	.1558-03	.1869-03	.1271	.9791	538.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1019

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U125)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000  
BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
21	.5073	7.900	40.03	1.042	101.1	1252.	92.84	.1124-01	.4910	3732.	.3268-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
21	.1717-01	.5677-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
21	5.5650	24.576	2320.0	.1244-02	.1507-02	.1507-02	.9000	.2135-04	.2587-04	.1534-01	.1165	533.5
21	5.5650	25.476	2322.0	.1795-02	.2173-02	.2173-02	.9000	.3081-04	.3730-04	.2216-01	.1840	532.3
21	5.5650	26.038	2323.0	.1895-02	.2294-02	.2294-02	.9000	.3253-04	.3937-04	.2343-01	.1811	531.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1020

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U125)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
36	1.022	7.940	40.06	1.017	207.1	1254.	92.12	.2228-01	.9832	3736.	.6528-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
36	.2430-01	.4018-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Z0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
36	5.5650	24.576	2320.0	.3819-03	.4624-03	.4624-03	.9000	.9278-05	.1124-04	.6677-02	.5068-01	534.0
36	5.5650	25.476	2322.0	.1945-02	.2355-02	.2355-02	.9000	.4726-04	.5721-04	.3405-01	.2826	533.1
36	5.5650	26.038	2323.0	.1885-02	.2281-02	.2281-02	.9000	.4579-04	.5542-04	.3304-01	.2554	532.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1021

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U125)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
71	1.998	7.980	40.08	1.028	434.2	1302.	94.76	.4520-01	2.015	3808.	.1287-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
71	.3501-01	.2872-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
71	5.5650	24.576	2320.0	.6054-03	.7286-03	.7286-03	.9000	.2120-04	.2551-04	.1632-01	.1241	531.5
71	5.5650	25.476	2322.0	.1418-02	.1706-02	.1706-02	.9000	.4965-04	.5972-04	.3833-01	.3185	529.7
71	5.5650	26.038	2323.0	.1452-02	.1746-02	.1746-02	.9000	.5084-04	.6113-04	.3931-01	.3044	528.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1022

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U126)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
24	.5075	7.900	39.99	2.018	101.2	1252.	92.84	.1124-01	.4912	3732.	.3269-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
24	.1717-01	.5676-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
24	5.5650	24.576	2320.0	.3169-03	.3836-03	.3836-03	.9000	.5440-05	.6587-05	.3911-02	.2971-01	532.7
24	5.5650	25.476	2322.0	.1503-02	.1819-02	.1819-02	.9000	.2580-04	.3123-04	.1857-01	.1542	531.8
24	5.5650	26.038	2323.0	.1599-02	.1935-02	.1935-02	.9000	.2745-04	.3322-04	.1979-01	.1530	530.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U126)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 2.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
39	1.016	7.940	40.02	2.015	206.2	1256.	92.27	.2218-01	.9789	3739.	.6489-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
39	.2425-01	.4030-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
39	5.5650	24.576	2320.0	.3131-03	.3791-03	.3791-03	.9000	.7593-05	.9194-05	.5476-02	.4155-01	534.5
39	5.5650	25.476	2322.0	.1702-02	.2060-02	.2060-02	.9000	.4127-04	.4995-04	.2981-01	.2473	533.4
39	5.5650	26.038	2323.0	.1645-02	.1991-02	.1991-02	.9000	.3990-04	.4828-04	.2886-01	.2230	532.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U126)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PC PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
68	2.002	7.980	40.01	2.012	434.5	1301.	94.69	.4523-01	2.016	3807.	.1289-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
68	.3502-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QOOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
68	5.5650	24.576	2320.0	.1560-03	.1877-03	.1877-03	.9000	.5461-05	.6572-05	.4203-02	.3195-01	531.1
68	5.5650	25.476	2322.0	.1050-02	.1263-02	.1263-02	.9000	.3676-04	.4422-04	.2835-01	.2356	529.5
68	5.5650	26.038	2323.0	.1130-02	.1359-02	.1359-02	.9000	.3959-04	.4760-04	.3058-01	.2368	528.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U127)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
27	.5107	7.900	40.02	4.000	101.5	1249.	92.62	.1128-01	.4926	3727.	.3286-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
27	.1719-01	.5660-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
27	5.5650	24.576	2320.0	.1028-03	.1244-03	.1244-03	.9000	.1766-05	.2138-05	.1265-02	.9614-02	532.1
27	5.5650	25.476	2322.0	.1264-02	.1530-02	.1530-02	.9000	.2172-04	.2630-04	.1559-01	.1295	531.1
27	5.5650	26.038	2323.0	.1420-02	.1719-02	.1719-02	.9000	.2441-04	.2954-04	.1753-01	.1357	530.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U127)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000  
BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
42	1.017	7.940	39.99	4.011	205.6	1252.	91.98	.2212-01	.9761	3733.	.6491-03	.7401-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
42	.2420-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
42	5.5650	24.576	2320.0	.5788-03	.7012-03	.7012-03	.9000	.1401-04	.1697-04	.1004-01	.7621-01	534.7
42	5.5650	25.476	2322.0	.1448-02	.1754-02	.1754-02	.9000	.3504-04	.4244-04	.2517-01	.2088	533.5
42	5.5650	26.038	2323.0	.1438-02	.1742-02	.1742-02	.9000	.3481-04	.4215-04	.2504-01	.1935	532.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U127)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
66	2.012	7.980	40.01	4.024	435.7	1299.	94.54	.4536-01	2.022	3804.	.1295-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
66	.3506-01	.2863-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
66	5.5650	24.576	2320.0	.1893-04	.2279-04	.2279-04	.9000	.6637-06	.7989-06	.5091-03	.3870-02	531.5
66	5.5650	25.476	2322.0	.1026-02	.1234-02	.1234-02	.9000	.3596-04	.4327-04	.2765-01	.2298	529.7
66	5.5650	26.038	2323.0	.1111-02	.1336-02	.1336-02	.9000	.3894-04	.4684-04	.2999-01	.2322	528.4



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U128)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
30	.5116	7.900	40.08	9.969	101.8	1250.	92.69	.1131-01	.4940	3729.	.3293-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
30	.1721-01	.5655-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
30	5.5650	24.576	2320.0	.7793-03	.9438-03	.9438-03	.9000	.1341-04	.1625-04	.9617-02	.7304-01	532.8
30	5.5650	25.476	2322.0	.1274-02	.1543-02	.1543-02	.9000	.2193-04	.2656-04	.1574-01	.1307	531.9
30	5.5650	26.038	2323.0	.1240-02	.1501-02	.1501-02	.9000	.2135-04	.2584-04	.1534-01	.1186	531.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U128)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 10.00    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
45	1.021	7.940	39.96	10.01	208.6	1261.	92.64	.2244-01	.9903	3746.	.6538-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
45	.2441-01	.4017-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
45	5.5650	24.576	2320.0	.8423-03	.1019-02	.1019-02	.9000	.2056-04	.2488-04	.1483-01	.1133	534.3
45	5.5650	25.476	2322.0	.1109-02	.1341-02	.1341-02	.9000	.2707-04	.3274-04	.1969-01	.1634	533.1
45	5.5650	26.038	2323.0	.1194-02	.1444-02	.1444-02	.9000	.2914-04	.3524-04	.2123-01	.1641	532.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U128)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
58	1.996	7.980	40.01	10.01	434.6	1304.	94.91	.4524-01	2.017	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
58	.3503-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
58	5.5650	24.576	2320.0	.1287-03	.1546-03	.1546-03	.9000	.4508-05	.5415-05	.3508-02	.2675-01	525.4
58	5.5650	25.476	2322.0	.5316-03	.6384-03	.6384-03	.9000	.1863-04	.2237-04	.1452-01	.1211	524.0
58	5.5650	26.038	2323.0	.1020-02	.1225-02	.1225-02	.9000	.3575-04	.4292-04	.2791-01	.2167	523.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U129)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
717	.5091	7.900	39.99	.3469-02	100.3	1242.	92.10	.1115-01	.4869	3717.	.3266-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
717	.1707-01	.5674-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS.	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
717	4.6920	24.576	2341.0	.4823-01	.5842-01	.5842-01	.9000	.8233-03	.9973-03	.5859	4.382	530.0
717	4.6920	24.913	2342.0	.5523-01	.6693-01	.6693-01	.9000	.9427-03	.1142-02	.6694	4.690	531.6
717	4.7220	25.475	2343.0	.5545-01	.6717-01	.6717-01	.9000	.9465-03	.1147-02	.6732	4.871	530.4
717	4.7590	26.038	2344.0	.5439-01	.6587-01	.6587-01	.9000	.9285-03	.1124-02	.6618	4.793	528.9
717	4.9020	24.576	2336.0	.2450-01	.2962-01	.2962-01	.3000	.4182-03	.5057-03	.3003	2.253	523.7
717	4.9020	24.913	2337.0	.4261-01	.5160-01	.5160-01	.9000	.7273-03	.8808-03	.5182	3.752	529.2
717	4.9020	25.575	2338.0	.4289-01	.5196-01	.5196-01	.9000	.7322-03	.8870-03	.5211	4.176	530.0
717	4.9020	26.138	2339.0	.4276-01	.5179-01	.5179-01	.9000	.7300-03	.8841-03	.5199	4.488	529.4
717	5.5650	24.913	2321.0	.4187-03	.5058-03	.5058-03	.9000	.7148-05	.8634-05	.5156-02	.4387-01	520.3
717	5.5650	25.476	2322.0	.7004-02	.8464-02	.8464-02	.9000	.1196-03	.1445-03	.8606-01	.7181	521.9
717	5.5650	26.038	2323.0	.1624-01	.1963-01	.1963-01	.9000	.2772-03	.3351-03	.1991	1.545	523.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U129)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 SDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
715	X10.6 1.013	7.940	39.99	.3469-02	207.7	1264.	92.86	.2234-01	.9860	3751.	.6495-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO. REF(R) =.0175
715	.2436-01	.4031-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
715	4.6920	24.576	2341.0	.5210-01	.6307-01	.6307-01	.9000	.1269-02	.1537-02	.9223	6.873	537.2
715	4.6920	24.913	2342.0	.6696-01	.8114-01	.8114-01	.9000	.1632-02	.1977-02	1.180	8.228	540.6
715	4.7220	25.475	2343.0	.6302-01	.7626-01	.7626-01	.9000	.1535-02	.1858-02	1.117	8.061	536.1
715	4.7590	26.038	2344.0	.5333-01	.6445-01	.6445-01	.9000	.1299-02	.1570-02	.9512	6.879	531.6
715	4.9020	24.576	2336.0	.2868-01	.3462-01	.3462-01	.9000	.6987-03	.8436-03	.5142	3.850	527.7
715	4.9020	24.913	2337.0	.5277-01	.6384-01	.6384-01	.9000	.1286-02	.1556-02	.9363	6.759	535.4
715	4.9020	25.575	2338.0	.6450-01	.7810-01	.7810-01	.9000	.1572-02	.1903-02	1.140	9.099	538.2
715	4.9020	26.138	2339.0	.4608-01	.5572-01	.5572-01	.9000	.1123-02	.1358-02	.8199	7.064	533.4
715	5.5650	24.576	2320.0	.1150-03	.1387-03	.1387-03	.9000	.2803-05	.3380-05	.2077-02	.1585-01	522.8
715	5.5650	24.913	2321.0	.3856-03	.4649-03	.4649-03	.9000	.9394-05	.1133-04	.6959-02	.5913-01	522.9
715	5.5650	25.476	2322.0	.1154-01	.1392-01	.1392-01	.9000	.2812-03	.3392-03	.2077	1.731	525.0
715	5.5650	26.038	2323.0	.2374-01	.2866-01	.2866-01	.9000	.5785-03	.6984-03	.4257	3.297	527.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1033

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U129)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
709	2.011	7.980	40.04	.1046-01	432.9	1294.	94.18	.4507-01	2.009	3796.	.1292-02	.7579-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
709	.3492-01	.2865-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
709	4.6920	24.576	2341.0	.7873-01	.9555-01	.9555-01	.9000	.2749-02	.3337-02	2.020	14.88	559.1
709	4.6920	24.913	2342.0	.9802-01	.1192	.1192	.9000	.3423-02	.4162-02	2.492	17.16	565.6
709	4.7220	25.475	2343.0	.9295-01	.1128	.1128	.9000	.3246-02	.3940-02	2.384	17.00	559.1
709	4.7590	26.038	2344.0	.7572-01	.9161-01	.9161-01	.9000	.2644-02	.3199-02	1.972	14.15	547.9
709	4.9020	24.576	2335.0	.4677-01	.5647-01	.5647-01	.9000	.1633-02	.1972-02	1.230	9.146	540.8
709	4.9020	24.913	2337.0	.7652-01	.9274-01	.9274-01	.9000	.2672-02	.3239-02	1.977	14.13	554.0
709	4.9020	25.575	2338.0	.1017	.1237	.1237	.9000	.3553-02	.4319-02	2.592	20.41	564.2
709	4.9020	26.138	2339.0	.7102-01	.8606-01	.8606-01	.9000	.2480-02	.3005-02	1.835	15.65	553.6
709	5.5650	24.576	2320.0	.6839-04	.8231-04	.8231-04	.9000	.2388-05	.2874-05	.1827-02	.1390-01	528.7
709	5.5650	24.913	2321.0	.5321-03	.6404-03	.6404-03	.9000	.1858-04	.2236-04	.1421-01	.1204	528.7
709	5.5650	25.476	2322.0	.1410-01	.1699-01	.1699-01	.9000	.4922-03	.5932-03	.3742	3.104	533.5
709	5.5650	26.038	2323.0	.2524-01	.3044-01	.3044-01	.9000	.8813-03	.1063-02	.6674	5.147	536.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U129)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BDFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
707	3.005	7.990	40.06	.6989-02	671.7	1324.	96.14	.6937-01	3.100	3841.	.1947-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
707	.4355-01	.2339-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
707	4.6920	24.576	2341.0	.1354	.1648	.1648	.9000	.5896-02	.7177-02	4.373	31.87	581.9
707	4.6920	24.913	2342.0	.1541	.1881	.1881	.9000	.6713-02	.8193-02	4.917	33.43	591.2
707	4.7220	25.475	2343.0	.1351	.1643	.1643	.9000	.5882-02	.7156-02	4.376	30.89	579.7
707	4.7590	26.038	2344.0	.1108	.1341	.1341	.9000	.4824-02	.5840-02	3.669	26.12	563.0
707	4.9020	24.576	2336.0	.7566-01	.9137-01	.9137-01	.9000	.3295-02	.3979-02	2.537	18.74	553.9
707	4.9020	24.913	2337.0	.1153	.1398	.1398	.9000	.5020-02	.6090-02	3.781	26.82	570.4
707	4.9020	25.575	2338.0	.1281	.1559	.1559	.9000	.5580-02	.6792-02	4.140	32.32	581.7
707	4.9020	26.138	2339.0	.1001	.1215	.1215	.9000	.4359-02	.5290-02	3.279	27.71	571.4
707	5.5650	24.576	2320.0	.8057-03	.9682-03	.9682-03	.9000	.3509-04	.4217-04	.2768-01	.2100	534.9
707	5.5650	24.913	2321.0	.7041-03	.8460-03	.8460-03	.9000	.3066-04	.3684-04	.2420-01	.2045	534.4
707	5.5650	25.476	2322.0	.1793-01	.2157-01	.2157-01	.9000	.7807-03	.9393-03	.6122	5.063	539.5
707	5.5650	26.038	2323.0	.3031-01	.3651-01	.3651-01	.9000	.1320-02	.1590-02	1.029	7.903	544.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U130)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
719	.5000	7.900	39.98	.3465-02	100.3	1257.	93.21	.1115-01	.4869	3739.	.3227-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
719	.1711-01	.5715-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
719	4.6920	24.576	2341.0	.4822-01	.5828-01	.5828-01	.9000	.8248-03	.9970-03	.6003	4.492	528.9
719	4.6920	24.913	2342.0	.5589-01	.6758-01	.6758-01	.9000	.9559-03	.1156-02	.6942	4.866	530.5
719	4.7220	25.475	2343.0	.5694-01	.6881-01	.6881-01	.9000	.9740-03	.1177-02	.7095	5.140	528.2
719	4.7590	26.038	2344.0	.5437-01	.6567-01	.6567-01	.9000	.9300-03	.1123-02	.6791	4.924	526.5
719	4.9020	24.576	2336.0	.2405-01	.2902-01	.2902-01	.9000	.4113-03	.4963-03	.3019	2.266	522.8
719	4.9020	24.913	2337.0	.4185-01	.5057-01	.5057-01	.9000	.7159-03	.8650-03	.5217	3.780	527.9
719	4.9020	25.575	2338.0	.4451-01	.5378-01	.5378-01	.9000	.7614-03	.9199-03	.5551	4.454	527.6
719	4.9020	26.138	2339.0	.4367-01	.5276-01	.5276-01	.9000	.7470-03	.9024-03	.5450	4.711	527.0
719	5.5650	24.576	2320.0	.3061-03	.3691-03	.3691-03	.9000	.5236-05	.6314-05	.3853-02	.2944-01	520.8
719	5.5650	24.913	2321.0	.4860-03	.5861-03	.5861-03	.9000	.8313-05	.1002-04	.6116-02	.5203-01	520.9
719	5.5650	25.476	2322.0	.7659-02	.9238-02	.9238-02	.9000	.1310-03	.1580-03	.9627-01	.8034	521.8
719	5.5650	26.038	2323.0	.1677-01	.2024-01	.2024-01	.9000	.2869-03	.3462-03	.2103	1.633	523.5



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U130)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
713	.9943	7.940	39.99	.6941-02	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
713	.2417-01	.4069-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
713	4.6920	24.576	2341.0	.5144-01	.6228-01	.6228-01	.9000	.1243-02	.1505-02	.9045	6.737	538.3
713	4.6920	24.913	2342.0	.6382-01	.7735-01	.7735-01	.9000	.1543-02	.1870-02	1.117	7.783	541.8
713	4.7220	25.475	2343.0	.6214-01	.7522-01	.7522-01	.9000	.1502-02	.1818-02	1.093	7.879	537.9
713	4.7590	26.038	2344.0	.5151-01	.6227-01	.6227-01	.9000	.1245-02	.1505-02	.9116	6.586	533.5
713	4.9020	24.576	2336.0	.2778-01	.3353-01	.3353-01	.9000	.6714-03	.8106-03	.4950	3.705	528.4
713	4.9020	24.913	2337.0	.5218-01	.6314-01	.6314-01	.9000	.1261-02	.1526-02	.9195	6.633	536.7
713	4.9020	25.575	2338.0	.5900-01	.7150-01	.7150-01	.9000	.1426-02	.1728-02	1.033	8.231	541.3
713	4.9020	26.138	2339.0	.4467-01	.5403-01	.5403-01	.9000	.1080-02	.1306-02	.7888	6.789	535.1
713	5.5650	24.913	2321.0	.3219-03	.3881-03	.3881-03	.9000	.7781-05	.9380-05	.5779-02	.4910-01	523.0
713	5.5650	25.476	2322.0	.1088-01	.1313-01	.1313-01	.9000	.2631-03	.3173-03	.1947	1.621	525.7
713	5.5650	26.038	2323.0	.2297-01	.2773-01	.2773-01	.9000	.5552-03	.6702-03	.4094	3.170	528.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U130)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
711	1.999	7.980	40.06	.1048-01	436.8	1307.	95.13	.4548-01	2.027	3815.	.1290-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
711	.3514-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
711	4.6920	24.576	2341.0	.7917-01	.9592-01	.9592-01	.9000	.2782-02	.3370-02	2.082	15.35	558.2
711	4.6920	24.913	2342.0	.9430-01	.1145	.1145	.9000	.3314-02	.4022-02	2.458	16.93	565.0
711	4.7220	25.475	2343.0	.9801-01	.1187	.1187	.9000	.3444-02	.4170-02	2.583	18.45	556.6
711	4.7590	26.038	2344.0	.7432-01	.8974-01	.8974-01	.9000	.2611-02	.3153-02	1.986	14.25	546.3
711	4.9020	24.576	2336.0	.4694-01	.5658-01	.5658-01	.9000	.1649-02	.1988-02	1.265	9.416	539.7
711	4.9020	24.913	2337.0	.7564-01	.9149-01	.9149-01	.9000	.2658-02	.3215-02	2.004	14.34	552.6
711	4.9020	25.575	2338.0	.9990-01	.1212	.1212	.9000	.3510-02	.4258-02	2.612	20.59	562.6
711	4.9020	26.138	2339.0	.7124-01	.8617-01	.8617-01	.9000	.2503-02	.3028-02	1.888	16.11	552.4
711	5.5650	24.576	2320.0	.2733-03	.3285-03	.3285-03	.9000	.9605-05	.1154-04	.7475-02	.5691-01	528.3
711	5.5650	24.913	2321.0	.5526-03	.6640-03	.6640-03	.9000	.1942-04	.2333-04	.1513-01	.1282	527.8
711	5.5650	25.476	2322.0	.1471-01	.1770-01	.1770-01	.9000	.5170-03	.6219-03	.4004	3.324	532.2
711	5.5650	26.038	2323.0	.3107-01	.3743-01	.3743-01	.9000	.1092-02	.1315-02	.8393	6.468	537.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U130)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
705	3.029	7.990	40.07	.3498-02	670.2	1315.	95.49	.6921-01	3.093	3827.	.1956-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
705	.4345-01	.2332-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
705	4.6920	24.576	2341.0	.1369	.1669	.1669	.9000	.5949-02	.7252-02	4.351	31.68	583.3
705	4.6920	24.913	2342.0	.1564	.1912	.1912	.9000	.6795-02	.8307-02	4.909	33.36	592.2
705	4.7220	25.475	2343.0	.1357	.1654	.1654	.9000	.5897-02	.7186-02	4.323	30.49	581.6
705	4.7590	26.038	2344.0	.1107	.1342	.1342	.9000	.4808-02	.5832-02	3.599	25.58	566.0
705	4.9020	24.576	2336.0	.7433-01	.8989-01	.8989-01	.9000	.3229-02	.3905-02	2.453	18.11	555.2
705	4.9020	24.913	2337.0	.1144	.1390	.1390	.9000	.4971-02	.6040-02	3.694	26.19	571.5
705	4.9020	25.575	2338.0	.1287	.1569	.1569	.9000	.5592-02	.6819-02	4.087	31.88	583.8
705	4.9020	26.138	2339.0	.9992-01	.1215	.1215	.9000	.4341-02	.5278-02	3.215	27.14	574.1
705	5.5650	24.576	2320.0	.5918-03	.7118-03	.7118-03	.9000	.2571-04	.3093-04	.2006-01	.1522	534.6
705	5.5650	24.913	2321.0	.7785-03	.9362-03	.9362-03	.9000	.3382-04	.4068-04	.2640-01	.2230	534.3
705	5.5650	25.476	2322.0	.1838-01	.2215-01	.2215-01	.9000	.7988-03	.9622-03	.6182	5.109	540.8
705	5.5650	26.038	2323.0	.4007-01	.4835-01	.4835-01	.9000	.1741-02	.2101-02	1.338	10.26	546.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U131)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
725	X10 6 .4997	7.900	39.98	-.1733-01	100.5	1259.	93.36	.1117-01	.4878	3742.	.3228-03	.7513-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
725	.1713-01	.5716-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
725	4.6920	24.576	2341.0	.5218-01	.6322-01	.6322-01	.9000	.8937-03	.1083-02	.6443	4.800	537.7
725	4.6920	24.913	2342.0	.7178-01	.8705-01	.8705-01	.9000	.1229-02	.1491-02	.8821	6.150	541.1
725	4.7220	25.475	2343.0	.6278-01	.7606-01	.7606-01	.9000	.1075-02	.1303-02	.7751	5.588	537.8
725	4.7590	26.038	2344.0	.5050-01	.6114-01	.6114-01	.9000	.8648-03	.1047-02	.6253	4.513	535.5
725	4.9020	24.576	2336.0	.3384-01	.4094-01	.4094-01	.9000	.5796-03	.7012-03	.4207	3.142	532.8
725	4.9020	24.913	2337.0	.7700-01	.9334-01	.9334-01	.9000	.1319-02	.1599-02	.9478	6.826	539.9
725	4.9020	25.575	2338.0	.6085-01	.7377-01	.7377-01	.9000	.1042-02	.1263-02	.7493	5.976	539.6
725	4.9020	26.138	2339.0	.4006-01	.4850-01	.4850-01	.9000	.6860-03	.8305-03	.4960	4.268	535.6
725	5.5650	24.913	2321.0	.3202-03	.3868-03	.3868-03	.9000	.5484-05	.6624-05	.4010-02	.3399-01	527.5
725	5.5650	25.476	2322.0	.8412-02	.1017-01	.1017-01	.9000	.1441-03	.1741-03	.1051	.8738	529.1
725	5.5650	26.038	2323.0	.1137-01	.1374-01	.1374-01	.9000	.1948-03	.2354-03	.1421	1.100	529.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U131)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BOFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
739	.9893	7.940	39.98	-.2427-01	204.0	1269.	93.22	.2194-01	.9684	3758.	.6353-03	.7502-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
739	.2416-01	.4077-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
739	4.6920	24.576	2341.0	.5436-01	.6592-01	.6592-01	.9000	.1314-02	.1593-02	.9505	7.054	545.1
739	4.6920	24.913	2342.0	.8143-01	.9890-01	.9890-01	.9000	.1968-02	.2390-02	1.413	9.809	550.3
739	4.7220	25.475	2343.0	.8376-01	.1016	.1016	.9000	.2024-02	.2456-02	1.460	10.48	547.2
739	4.7590	26.038	2344.0	.5885-01	.7130-01	.7130-01	.9000	.1422-02	.1723-02	1.033	7.435	541.9
739	4.9020	24.576	2336.0	.3648-01	.4413-01	.4413-01	.9000	.8815-03	.1066-02	.6451	4.808	536.8
739	4.9020	24.913	2337.0	.9088-01	.1103	.1103	.9000	.2196-02	.2665-02	1.583	11.35	547.9
739	4.9020	25.575	2338.0	.8746-01	.1062	.1062	.9000	.2113-02	.2567-02	1.516	12.02	551.3
739	4.9020	26.138	2339.0	.5344-01	.6480-01	.6480-01	.9000	.1291-02	.1566-02	.9345	8.004	545.0
739	5.5650	24.576	2320.0	.1980-03	.2390-03	.2390-03	.9000	.4785-05	.5774-05	.3543-02	.2698-01	528.2
739	5.5650	24.913	2321.0	.3213-03	.3877-03	.3877-03	.9000	.7763-05	.9368-05	.5747-02	.4870-01	528.4
739	5.5650	25.476	2322.0	.1344-01	.1623-01	.1623-01	.9000	.3247-03	.3921-03	.2394	1.988	531.4
739	5.5650	26.038	2323.0	.1498-01	.1810-01	.1810-01	.9000	.3621-03	.4373-03	.2670	2.065	531.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1041

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R40131)

AFT FUSELAGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
737	2.003	7.980	40.04	-.2093-01	434.1	1300.	94.62	.4520-01	2.015	3805.	.1289-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
737	.3500-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
737	4.6920	24.576	2341.0	.7741-01	.9394-01	.9394-01	.9000	.2709-02	.3288-02	2.002	14.74	560.8
737	4.6920	24.913	2342.0	.1182	.1438	.1438	.9000	.4136-02	.5033-02	3.014	20.71	570.8
737	4.7220	25.475	2343.0	.1210	.1471	.1471	.9000	.4234-02	.5148-02	3.099	22.01	567.7
737	4.7590	26.038	2344.0	.8964-01	.1086	.1086	.9000	.3137-02	.3799-02	2.340	16.74	553.7
737	4.9020	24.576	2336.0	.4897-01	.5917-01	.5917-01	.9000	.1714-02	.2071-02	1.293	9.596	545.3
737	4.9020	24.913	2337.0	.1132	.1374	.1374	.9000	.3962-02	.4810-02	2.920	20.79	562.6
737	4.9020	25.575	2338.0	.1255	.1527	.1527	.9000	.4393-02	.5345-02	3.203	25.15	570.5
737	4.9020	26.138	2339.0	.9421-01	.1143	.1143	.9000	.3297-02	.4302-02	2.434	20.67	561.5
737	5.5650	24.576	2320.0	.6740-03	.8112-03	.8112-03	.9000	.2359-04	.2839-04	.1812-01	.1378	531.3
737	5.5650	24.913	2321.0	.7236-03	.8709-03	.8709-03	.9000	.2533-04	.3048-04	.1947-01	.1647	531.0
737	5.5650	25.476	2322.0	.1876-01	.2260-01	.2260-01	.9000	.6564-03	.7908-03	.5019	4.160	535.0
737	5.5650	26.038	2323.0	.1907-01	.2296-01	.2296-01	.9000	.6673-03	.8036-03	.5112	3.948	533.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT-LINE

(R4U131)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
727	3.035	7.990	40.06	-1.2097-01	670.9	1314.	95.41	.6928-01	3.096	3826.	.1960-02	.7678-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
727	.4347-01	.2330-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
727	4.6920	24.576	2341.0	.1314	.1597	.1597	.9000	.5712-02	.6944-02	4.231	30.97	572.9
727	4.6920	24.913	2342.0	.1628	.1987	.1987	.9000	.7074-02	.8639-02	5.132	34.95	588.2
727	4.7220	25.475	2343.0	.1603	.1956	.1956	.9000	.6968-02	.8502-02	5.074	35.71	585.5
727	4.7590	26.038	2344.0	.1307	.1585	.1585	.9000	.5681-02	.6892-02	4.248	30.20	565.9
727	4.9020	24.576	2336.0	.7530-01	.9087-01	.9087-01	.9000	.3273-02	.3950-02	2.511	18.62	546.6
727	4.9020	24.913	2337.0	.1498	.1821	.1821	.9000	.6512-02	.7916-02	4.822	34.15	573.2
727	4.9020	25.575	2338.0	.1455	.1774	.1774	.9000	.6326-02	.7710-02	4.631	36.16	581.6
727	4.9020	26.138	2339.0	.1197	.1456	.1456	.9000	.5202-02	.6329-02	3.840	32.39	575.6
727	5.5650	24.576	2320.0	.1298-02	.1556-02	.1556-02	.9000	.5641-04	.6764-04	.4464-01	.3408	522.4
727	5.5650	24.913	2321.0	.9214-03	.1105-02	.1105-02	.9000	.4005-04	.4802-04	.3169-01	.2694	522.3
727	5.5650	25.476	2322.0	.2186-01	.2626-01	.2626-01	.9000	.9502-03	.1141-02	.7449	6.191	529.7
727	5.5650	26.038	2323.0	.2305-01	.2769-01	.2769-01	.9000	.1002-02	.1204-02	.7854	6.078	529.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U132)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BOFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
723	.4957	7.900	39.97	-.1731-01	100.1	1263.	93.66	.1113-01	.4862	3748.	.3207-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
723	.1711-01	.5736-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
723	4.6920	24.576	2341.0	.5439-01	.6577-01	.6577-01	.9000	.9304-03	.1125-02	.6789	5.070	533.0
723	4.6920	24.913	2342.0	.7280-01	.8813-01	.8813-01	.9000	.1245-02	.1507-02	.9044	6.321	536.4
723	4.7220	25.475	2343.0	.6534-01	.7829-01	.7829-01	.9000	.1118-02	.1351-02	.8167	5.905	532.0
723	4.7590	26.038	2344.0	.5417-01	.6541-01	.6541-01	.9000	.9266-03	.1119-02	.6807	4.932	528.0
723	4.9020	24.576	2336.0	.3434-01	.4147-01	.4147-01	.9000	.5874-03	.7093-03	.4314	3.229	528.3
723	4.9020	24.913	2337.0	.7800-01	.9438-01	.9438-01	.9000	.1334-02	.1614-02	.9706	7.007	535.2
723	4.9020	25.575	2338.0	.6269-01	.7583-01	.7583-01	.9000	.1072-02	.1297-02	.7816	6.252	533.8
723	4.9020	26.138	2339.0	.4189-01	.5058-01	.5058-01	.9000	.7164-03	.8652-03	.5260	4.543	528.4
723	5.5650	24.576	2320.0	.5888-03	.7107-03	.7107-03	.9000	.1007-04	.1216-04	.7409-02	.5644-01	527.0
723	5.5650	24.913	2321.0	.4869-03	.5877-03	.5877-03	.9000	.8328-05	.1005-04	.6130-02	.5199-01	526.7
723	5.5650	25.476	2322.0	.9459-02	.1142-01	.1142-01	.9000	.1618-03	.1954-03	.1190	.9903	527.3
723	5.5650	26.038	2323.0	.1282-01	.1548-01	.1548-01	.9000	.2194-03	.2648-03	.1613	1.250	527.2



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U132)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
741	.9943	7.940	39.99	-.2082-01	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
741	.2417-01	.4069-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
741	4.6920	24.576	2341.0	.5435-01	.6593-01	.6593-01	.9000	.1314-02	.1594-02	.9469	7.029	544.9
741	4.6920	24.913	2342.0	.8235-01	.1000	.1000	.9000	.1990-02	.2418-02	1.424	9.887	550.0
741	4.7220	25.475	2343.0	.8307-01	.1008	.1008	.9000	.2008-02	.2436-02	1.444	10.37	546.2
741	4.7590	26.038	2344.0	.5775-01	.6994-01	.6994-01	.9000	.1396-02	.1691-02	1.013	7.299	539.7
741	4.9020	24.576	2336.0	.3541-01	.4285-01	.4285-01	.9000	.8560-03	.1036-02	.6241	4.652	536.6
741	4.9020	24.913	2337.0	.8884-01	.1078	.1078	.9000	.2147-02	.2607-02	1.543	11.07	547.1
741	4.9020	25.575	2338.0	.8825-01	.1072	.1072	.9000	.2133-02	.2591-02	1.526	12.11	550.1
741	4.9020	26.138	2339.0	.5344-01	.6478-01	.6478-01	.9000	.1292-02	.1566-02	.9337	8.006	542.8
741	5.5650	24.576	2320.0	.3738-03	.4513-03	.4513-03	.9000	.9034-05	.1091-04	.6655-02	.5065-01	529.0
741	5.5650	24.913	2321.0	.5367-03	.6480-03	.6480-03	.9000	.1297-04	.1566-04	.9556-02	.8095-01	529.0
741	5.5650	25.476	2322.0	.1358-01	.1641-01	.1641-01	.9000	.3283-03	.3967-03	.2409	2.001	531.7
741	5.5650	26.038	2323.0	.1473-01	.1780-01	.1780-01	.9000	.3561-03	.4302-03	.2615	2.022	531.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U132)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
735	1.997	7.980	40.06	-.2095-01	434.8	1304.	94.91	.4527-01	2.018	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
735	.3504-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
735	4.6920	24.576	2341.0	.7906-01	.9572-01	.9572-01	.9000	.2770-02	.3355-02	2.074	15.32	554.9
735	4.6920	24.913	2342.0	.1148	.1394	.1394	.9000	.4023-02	.4886-02	2.967	20.43	566.0
735	4.7220	25.475	2343.0	.1238	.1503	.1503	.9000	.4340-02	.5266-02	3.217	22.91	562.3
735	4.7590	26.038	2344.0	.8981-01	.1085	.1085	.9000	.3147-02	.3804-02	2.378	17.06	548.0
735	4.9020	24.576	2336.0	.4827-01	.5820-01	.5820-01	.9000	.1692-02	.2040-02	1.293	9.621	539.5
735	4.9020	24.913	2337.0	.1165	.1412	.1412	.9000	.4083-02	.4947-02	3.047	21.75	557.4
735	4.9020	25.575	2338.0	.1251	.1519	.1519	.9000	.4384-02	.5324-02	3.238	25.49	565.2
735	4.9020	26.138	2339.0	.9399-01	.1139	.1139	.9000	.3293-02	.3990-02	2.459	20.93	557.0
735	4.9020	26.576	2320.0	.9165-03	.1102-02	.1102-02	.9000	.3212-04	.3862-04	.2489-01	.1894	528.8
735	5.5650	24.576	2320.0	.8172-03	.9823-03	.9823-03	.9000	.2864-04	.3442-04	.2221-01	.1883	528.0
735	5.5650	24.913	2321.0	.1803-01	.2170-01	.2170-01	.9000	.6320-03	.7605-03	.4874	4.046	532.4
735	5.5650	25.476	2322.0	.1803-01	.2170-01	.2170-01	.9000	.6320-03	.7605-03	.4874	4.046	532.4
735	5.5650	26.038	2323.0	.1908-01	.2296-01	.2296-01	.9000	.6687-03	.8048-03	.5157	3.985	532.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U132)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
729	3.003	7.990	40.07	-.2097-01	668.3	1320.	95.85	.6901-01	3.084	3835.	.1943-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
729	.4342-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
729	4.6920	24.576	2341.0	.1305	.1587	.1587	.9000	.5666-02	.6889-02	4.213	30.78	576.2
729	4.6920	24.913	2342.0	.1631	.1991	.1991	.9000	.7080-02	.8645-02	5.160	35.09	590.8
729	4.7220	25.475	2343.0	.1605	.1957	.1957	.9000	.6967-02	.8496-02	5.109	35.95	586.3
729	4.7590	26.038	2344.0	.1289	.1562	.1562	.9000	.5598-02	.6782-02	4.231	30.11	563.8
729	4.9020	24.576	2336.0	.7237-01	.8733-01	.8733-01	.9000	.3142-02	.3792-02	2.420	17.92	549.4
729	4.9020	24.913	2337.0	.1478	.1797	.1797	.9000	.6418-02	.7801-02	4.778	33.80	575.3
729	4.9020	25.575	2338.0	.1473	.1795	.1795	.9000	.6397-02	.7792-02	4.716	36.81	582.5
729	4.9020	26.138	2339.0	.1195	.1451	.1451	.9000	.5187-02	.6301-02	3.873	32.71	573.1
729	5.5650	24.576	2320.0	.1452-02	.1743-02	.1743-02	.9000	.6303-04	.7566-04	.4985-01	.3794	528.8
729	5.5650	24.913	2321.0	.8407-03	.1009-02	.1009-02	.9000	.3650-04	.4381-04	.2889-01	.2448	528.2
729	5.5650	25.476	2322.0	.3157-01	.3796-01	.3796-01	.9000	.1371-02	.1648-02	1.075	8.913	535.2
729	5.5650	26.038	2323.0	.2400-01	.2882-01	.2882-01	.9000	.1042-02	.1251-02	.8226	6.364	530.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U133)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
721	.5028	7.900	39.98	-.1386-01	100.9	1257.	93.21	.1121-01	.4897	3739.	.3245-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
721	.1715-01	.5699-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
721	4.6920	24.576	2341.0	.5461-01	.6611-01	.6611-01	.9000	.9367-03	.1134-02	.6767	5.050	534.3
721	4.6920	24.913	2342.0	.7409-01	.8979-01	.8979-01	.9000	.1271-02	.1540-02	.9138	6.383	537.6
721	4.7220	25.475	2343.0	.6418-01	.7768-01	.7768-01	.9000	.1101-02	.1332-02	.7958	5.749	533.7
721	4.7590	26.038	2344.0	.5409-01	.6542-01	.6542-01	.9000	.9279-03	.1122-02	.6737	4.874	530.6
721	4.9020	24.576	2336.0	.3542-01	.4283-01	.4283-01	.9000	.6077-03	.7346-03	.4419	3.306	529.5
721	4.9020	24.913	2337.0	.8049-01	.9750-01	.9750-01	.9000	.1381-02	.1672-02	.9945	7.175	536.4
721	4.9020	25.575	2338.0	.6282-01	.7608-01	.7608-01	.9000	.1078-02	.1305-02	.7770	6.209	535.6
721	4.9020	26.138	2339.0	.4139-01	.5006-01	.5006-01	.9000	.7099-03	.8586-03	.5152	4.444	530.9
721	4.9020	24.576	2320.0	.5457-03	.6593-03	.6593-03	.9000	.9361-05	.1131-04	.6829-02	.5201-01	527.2
721	5.5650	24.913	2321.0	.6604-03	.7978-03	.7978-03	.9000	.1133-04	.1368-04	.8268-02	.7012-01	526.8
721	5.5650	25.476	2322.0	.9310-02	.1125-01	.1125-01	.9000	.1597-03	.1930-03	.1164	.9679	528.1
721	5.5650	26.038	2323.0	.1277-01	.1544-01	.1544-01	.9000	.2191-03	.2648-03	.1596	1.236	528.2

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U133)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.060    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BOFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
743	X10 6 1.018	7.840	39.99	-2081-01	209.4	1267.	93.08	.2253-01	.9941	3755.	.6532-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
743	.2447-01	.4021-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
743	4.6920	24.576	2341.0	.5571-01	.6759-01	.6759-01	.9000	.1363-02	.1654-02	.9826	7.290	546.0
743	4.6920	24.913	2342.0	.8669-01	.1053	.1053	.9000	.2122-02	.2578-02	1.518	10.53	551.4
743	4.7220	25.475	2343.0	.8376-01	.1017	.1017	.9000	.2050-02	.2488-02	1.475	10.58	547.2
743	4.7590	26.038	2344.0	.5819-01	.7046-01	.7046-01	.9000	.1424-02	.1724-02	1.036	7.463	539.3
743	4.9020	24.576	2336.0	.3795-01	.4594-01	.4594-01	.9000	.9289-03	.1124-02	.6770	5.044	537.8
743	4.9020	24.913	2337.0	.9206-01	.1118	.1118	.9000	.2253-02	.2735-02	1.619	11.61	548.3
743	4.9020	25.575	2338.0	.9006-01	.1094	.1094	.9000	.2204-02	.2678-02	1.578	12.51	550.8
743	4.9020	26.138	2339.0	.5702-01	.6908-01	.6908-01	.9000	.1396-02	.1691-02	1.013	8.692	540.9
743	5.5650	24.576	2320.0	.2864-03	.3459-03	.3459-03	.9000	.7010-05	.8466-05	.5165-02	.3929-01	529.8
743	5.5650	24.913	2321.0	.5010-03	.6050-03	.6050-03	.9000	.1226-04	.1481-04	.9035-02	.7851-01	529.8
743	5.5650	25.476	2322.0	.1360-01	.1642-01	.1642-01	.9000	.3327-03	.4020-03	.2447	2.033	531.2
743	5.5650	26.038	2323.0	.1643-01	.1983-01	.1983-01	.9000	.4022-03	.4852-03	.2977	2.307	526.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U133)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
733	1.990	7.980	40.04	-.2091-01	433.8	1305.	94.98	.4516-01	2.013	3813.	.1283-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
733	.3501-01	.2877-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
733	4.6920	24.576	2341.0	.7787-01	.9438-01	.9438-01	.9000	.2726-02	.3304-02	2.033	14.99	558.8
733	4.6920	24.913	2342.0	.1131	.1375	.1375	.9000	.3959-02	.4814-02	2.908	19.98	570.2
733	4.7220	25.475	2343.0	.1220	.1482	.1482	.9000	.4270-02	.5188-02	3.147	22.35	567.6
733	4.7590	26.038	2344.0	.8599-01	.1041	.1041	.9000	.3010-02	.3644-02	2.258	16.14	554.7
733	4.9020	24.576	2336.0	.4871-01	.5878-01	.5878-01	.9000	.1705-02	.2058-02	1.299	9.651	543.0
733	4.9020	24.913	2337.0	.1146	.1390	.1390	.9000	.4013-02	.4867-02	2.981	21.24	561.7
733	4.9020	25.575	2338.0	.1230	.1495	.1495	.9000	.4305-02	.5235-02	3.160	24.81	570.5
733	4.9020	26.138	2339.0	.9246-01	.1122	.1122	.9000	.3237-02	.3927-02	2.401	20.38	562.8
733	5.5650	24.576	2320.0	.7819-03	.9398-03	.9398-03	.9000	.2737-04	.3290-04	.2125-01	.1618	528.2
733	5.5650	24.913	2321.0	.7578-03	.9108-03	.9108-03	.9000	.2653-04	.3189-04	.2060-01	.1746	528.2
733	5.5650	25.476	2322.0	.1834-01	.2208-01	.2208-01	.9000	.6422-03	.7728-03	.4956	4.112	532.9
733	5.5650	26.038	2323.0	.1950-01	.2347-01	.2347-01	.9000	.6827-03	.8217-03	.5268	4.070	533.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U133)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
731	3.017	7.990	40.06	-.2096-01	671.5	1320.	95.85	.6935-01	3.099	3835.	.1953-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
731	.4352-01	.2335-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
731	4.6920	24.576	2341.0	.1309	.1591	.1591	.9000	.5698-02	.6926-02	4.242	31.02	575.1
731	4.6920	24.913	2342.0	.1637	.1999	.1999	.9000	.7126-02	.8700-02	5.197	35.35	590.4
731	4.7220	25.475	2343.0	.1607	.1960	.1960	.9000	.6996-02	.8529-02	5.134	36.13	585.8
731	4.7590	26.038	2344.0	.1313	.1591	.1591	.9000	.5714-02	.6925-02	4.313	30.68	564.8
731	4.9020	24.576	2336.0	.7380-01	.8903-01	.8903-01	.9000	.3212-02	.3875-02	2.477	18.35	548.5
731	4.9020	24.913	2337.0	.1475	.1793	.1793	.9000	.6420-02	.7801-02	4.783	33.85	574.6
731	4.9020	25.575	2338.0	.1469	.1789	.1789	.9000	.6393-02	.7786-02	4.716	36.82	582.0
731	4.9020	26.138	2339.0	.1200	.1458	.1458	.9000	.5224-02	.6347-02	3.894	32.87	574.2
731	5.5650	24.576	2320.0	.1800-02	.2161-02	.2161-02	.9000	.7833-04	.9405-04	.6186-01	.4705	530.0
731	5.5650	24.913	2321.0	.8516-03	.1022-02	.1022-02	.9000	.3706-04	.4449-04	.2929-01	.2480	529.5
731	5.5650	25.476	2322.0	.2249-01	.2704-01	.2704-01	.9000	.9789-03	.1177-02	.7684	6.370	534.8
731	5.5650	26.038	2323.0	.2392-01	.2876-01	.2876-01	.9000	.1041-02	.1251-02	.8169	6.305	535.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U134)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
633	.5017	7.900	39.93	-.3449-02	100.0	1252.	92.84	.1112-01	.4857	3732.	.3232-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
633	.1707-01	.5709-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
633	4.6920	24.576	2341.0	.5841-01	.7086-01	.7086-01	.9000	.9971-03	.1210-02	.7101	5.286	539.4
633	4.6920	24.913	2342.0	.9680-01	.1177	.1177	.9000	.1652-02	.2009-02	1.166	8.111	545.9
633	4.7220	25.475	2343.0	.8496-01	.1032	.1032	.9000	.1450-02	.1762-02	1.027	7.381	543.7
633	4.7590	26.038	2344.0	.7283-01	.8836-01	.8836-01	.9000	.1243-02	.1508-02	.8857	6.381	539.3
633	4.9020	24.576	2336.0	.4128-01	.5001-01	.5001-01	.9000	.7047-03	.8537-03	.5055	3.772	534.3
633	4.9020	24.913	2337.0	.9546-01	.1159	.1159	.9000	.1630-02	.1979-02	1.155	8.305	543.0
633	4.9020	25.575	2338.0	.9748-01	.1184	.1184	.9000	.1664-02	.2021-02	1.179	9.389	543.0
633	4.9020	26.138	2339.0	.5223-01	.6336-01	.6336-01	.9000	.8917-03	.1082-02	.6354	5.458	539.0
633	5.5650	24.576	2320.0	.1284-03	.1553-03	.1553-03	.9000	.2192-05	.2651-05	.1583-02	.1204-01	529.5
633	5.5650	24.913	2321.0	.2857-03	.3455-03	.3455-03	.9000	.4877-05	.5899-05	.3523-02	.2983-01	529.3
633	5.5650	25.476	2322.0	.1657-02	.2005-02	.2005-02	.9000	.2829-04	.3422-04	.2044-01	.1699	529.4
633	5.5650	26.038	2323.0	.1987-02	.2403-02	.2403-02	.9000	.3391-04	.4102-04	.2449-01	.1896	529.4



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U134)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
659	1.001	7.940	39.97	-4645-06	206.7	1270.	93.30	.2223-01	.9811	3760.	.6431-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
659	.2432-01	.4053-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
659	4.6920	24.576	2341.0	.6011-01	.7281-01	.7281-01	.9000	.1462-02	.1771-02	1.065	7.916	541.6
659	4.6920	24.913	2342.0	.1019	.1238	.1238	.9000	.2479-02	.3011-02	1.782	12.37	550.8
659	4.7220	25.475	2343.0	.1026	.1246	.1246	.9000	.2496-02	.3030-02	1.796	12.87	550.0
659	4.7590	26.038	2344.0	.7591-01	.9186-01	.9186-01	.9000	.1846-02	.2234-02	1.350	9.728	538.6
659	4.9020	24.576	2336.0	.4220-01	.5098-01	.5098-01	.9000	.1026-02	.1240-02	.7561	5.647	533.0
659	4.9020	24.913	2337.0	.1090	.1323	.1323	.9000	.2652-02	.3217-02	1.915	13.74	547.3
659	4.9020	25.575	2338.0	.1096	.1331	.1331	.9000	.2666-02	.3237-02	1.920	15.24	549.4
659	4.9020	26.138	2339.0	.7058-01	.8548-01	.8548-01	.9000	.1717-02	.2079-02	1.250	10.73	541.4
659	5.5650	24.576	2320.0	.5503-03	.6636-03	.6636-03	.9000	.1339-04	.1614-04	.9956-02	.7589-01	525.9
659	5.5650	24.913	2321.0	.8026-03	.9676-03	.9676-03	.9000	.1952-04	.2354-04	.1454-01	.1234	525.0
659	5.5650	25.476	2322.0	.2073-02	.2500-02	.2500-02	.9000	.5042-04	.6080-04	.3750-01	.3122	526.0
659	5.5650	26.038	2323.0	.3329-02	.4014-02	.4014-02	.9000	.8098-04	.9763-04	.6028-01	.4675	525.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U134)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
647	1.985	7.980	40.00	.3471-02	436.3	1312.	95.49	.4542-01	2.025	3823.	.1284-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
647	.3514-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
647	4.6920	24.576	2341.0	.8497-01	.1030	.1030	.9000	.2986-02	.3619-02	2.237	16.46	562.3
647	4.6920	24.913	2342.0	.1343	.1635	.1635	.9000	.4719-02	.5747-02	3.461	23.68	578.3
647	4.7220	25.475	2343.0	.1496	.1825	.1825	.9000	.5257-02	.6415-02	3.922	26.92	584.7
647	4.7590	26.038	2344.0	.1227	.1489	.1489	.9000	.4312-02	.5233-02	3.215	22.85	566.1
647	4.9020	24.576	2336.0	.5734-01	.6924-01	.6924-01	.9000	.2015-02	.2433-02	1.537	11.38	549.0
647	4.9020	24.913	2337.0	.1401	.1703	.1703	.9000	.4923-02	.5985-02	3.642	25.81	571.9
647	4.9020	25.575	2338.0	.1380	.1678	.1678	.9000	.4848-02	.5898-02	3.573	27.99	574.8
647	4.9020	26.138	2339.0	.1118	.1358	.1358	.9000	.3928-02	.4772-02	2.913	24.63	570.1
647	5.5650	24.576	2320.0	.4599-03	.5536-03	.5536-03	.9000	.1616-04	.1945-04	.1252-01	.9487-01	537.1
647	5.5650	24.913	2321.0	.5347-03	.6435-03	.6435-03	.9000	.1879-04	.2261-04	.1457-01	.1230	536.0
647	5.5650	25.476	2322.0	.2122-02	.2553-02	.2553-02	.9000	.7455-04	.8973-04	.5780-01	.4788	536.3
647	5.5650	26.038	2323.0	.3029-02	.3646-02	.3646-02	.9000	.1064-03	.1281-03	.8250-01	.6362	536.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U134)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
649	3.013	7.990	40.03	.6967-02	670.5	1320.	95.85	.6924-01	3.094	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
649	.4349-01	.2337-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
649	4.6920	24.576	2341.0	.1340	.1630	.1630	.9000	.5829-02	.7090-02	4.325	31.58	577.7
649	4.6920	24.913	2342.0	.1979	.2422	.2422	.9000	.8607-02	.1053-01	6.209	42.07	598.4
649	4.7220	25.475	2343.0	.2182	.2682	.2682	.9000	.9489-02	.1167-01	6.713	46.64	612.2
649	4.7590	26.038	2344.0	.1791	.2185	.2185	.9000	.7787-02	.9500-02	5.698	40.06	587.9
649	4.9020	24.576	2336.0	.8545-01	.1033	.1033	.9000	.3716-02	.4493-02	2.837	20.94	556.3
649	4.9020	24.913	2337.0	.1947	.2377	.2377	.9000	.8469-02	.1034-01	6.178	43.39	590.2
649	4.9020	25.575	2338.0	.1939	.2372	.2372	.9000	.8431-02	.1031-01	6.096	47.24	596.7
649	4.9020	26.138	2339.0	.1527	.1863	.1863	.9000	.6641-02	.8104-02	4.856	40.69	588.5
649	5.5650	24.576	2320.0	.4805-03	.5769-03	.5769-03	.9000	.2090-04	.2509-04	.1650-01	.1255	529.9
649	5.5650	24.913	2321.0	.7256-03	.8712-03	.8712-03	.9000	.3156-04	.3789-04	.2493-01	.2111	529.7
649	5.5650	25.476	2322.0	.2477-02	.2975-02	.2975-02	.9000	.1077-03	.1294-03	.8495-01	.7056	531.1
649	5.5650	26.038	2323.0	.3745-02	.4498-02	.4498-02	.9000	.1629-03	.1956-03	.1283	.9921	531.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R40135)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
635	.4992	7.900	39.96	-.3458-02	99.17	1249.	92.62	.1102-01	.4815	3727.	.3212-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
635	.1699-01	.5725-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
635	4.6920	24.576	2341.0	.6009-01	.7289-01	.7289-01	.9000	.1021-02	.1238-02	.7261	5.410	537.5
635	4.6920	24.913	2342.0	.9366-01	.1138	.1138	.9000	.1591-02	.1934-02	1.121	7.807	544.0
635	4.7220	25.475	2343.0	.8692-01	.1055	.1055	.9000	.1477-02	.1793-02	1.046	7.527	540.7
635	4.7590	26.038	2344.0	.6942-01	.8404-01	.8404-01	.9000	.1179-02	.1428-02	.8463	6.122	531.1
635	4.9020	24.576	2336.0	.4078-01	.4939-01	.4939-01	.9000	.6929-03	.8392-03	.4962	3.706	532.5
635	4.9020	24.913	2337.0	.9645-01	.1171	.1171	.9000	.1639-02	.1990-02	1.160	8.347	541.0
635	4.9020	25.575	2338.0	.9762-01	.1185	.1185	.9000	.1659-02	.2013-02	1.176	9.373	539.9
635	4.9020	26.138	2339.0	.5250-01	.6355-01	.6355-01	.9000	.8920-03	.1080-02	.6405	5.525	530.6
635	5.5650	24.913	2321.0	.2731-03	.3304-03	.3304-03	.9000	.4640-05	.5614-05	.3339-02	.2829-01	529.0
635	5.5650	25.476	2322.0	.1297-02	.1569-02	.1569-02	.9000	.2203-04	.2666-04	.1586-01	.1319	528.7
635	5.5650	26.038	2323.0	.1468-02	.1776-02	.1776-02	.9000	.2495-04	.3017-04	.1799-01	.1393	527.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U135)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
657	.9860	7.940	39.99	-4.654-06	202.4	1265.	92.93	.2177-01	.9606	3752.	.6322-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
657	.2405-01	.4086-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
657	4.6920	24.576	2341.0	.5902-01	.7159-01	.7159-01	.9000	.1420-02	.1722-02	1.023	7.597	544.0
657	4.6920	24.913	2342.0	.1068	.1299	.1299	.9000	.2569-02	.3125-02	1.828	12.67	553.1
657	4.7220	25.475	2343.0	.1012	.1231	.1231	.9000	.2434-02	.2960-02	1.731	12.39	553.3
657	4.7590	26.038	2344.0	.7516-01	.9117-01	.9117-01	.9000	.1808-02	.2193-02	1.302	9.357	544.3
657	4.9020	24.576	2336.0	.4181-01	.5059-01	.5059-01	.9000	.1006-02	.1217-02	.7330	5.466	535.9
657	4.9020	24.913	2337.0	.1102	.1340	.1340	.9000	.2652-02	.3222-02	1.895	13.58	550.1
657	4.9020	25.575	2338.0	.1096	.1333	.1333	.9000	.2636-02	.3206-02	1.876	14.86	552.9
657	4.9020	26.138	2339.0	.6598-01	.8009-01	.8009-01	.9000	.1587-02	.1926-02	1.139	9.744	547.0
657	5.5650	24.576	2320.0	.3829-03	.4621-03	.4621-03	.9000	.9211-05	.1111-04	.6802-02	.5184-01	526.2
657	5.5650	24.913	2321.0	.4417-03	.5330-03	.5330-03	.9000	.1062-04	.1282-04	.7842-02	.6652-01	526.5
657	5.5650	25.476	2322.0	.1899-02	.2292-02	.2292-02	.9000	.4567-04	.5512-04	.3368-01	.2803	527.1
657	5.5650	26.038	2323.0	.2038-02	.2460-02	.2460-02	.9000	.4903-04	.5918-04	.3616-01	.2802	527.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U135)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
645	1.997	7.980	40.01	-.4664-06	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
645	.3502-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
645	4.6920	24.576	2341.0	.8486-01	.1031	.1031	.9000	.2972-02	.3610-02	2.189	16.08	566.1
645	4.6920	24.913	2342.0	.1360	.1660	.1660	.9000	.4763-02	.5813-02	3.433	23.45	581.9
645	4.7220	25.475	2343.0	.1486	.1818	.1818	.9000	.5206-02	.6368-02	3.715	26.10	589.0
645	4.7590	26.038	2344.0	.1248	.1519	.1519	.9000	.4370-02	.5319-02	3.192	22.62	572.2
645	4.9020	24.576	2336.0	.5729-01	.6934-01	.6934-01	.9000	.2006-02	.2428-02	1.505	11.13	552.7
645	4.9020	24.913	2337.0	.1401	.1707	.1707	.9000	.4906-02	.5977-02	3.567	25.23	575.6
645	4.9020	25.575	2338.0	.1366	.1666	.1666	.9000	.4783-02	.5833-02	3.459	27.04	579.4
645	4.9020	26.138	2339.0	.1117	.1361	.1361	.9000	.3912-02	.4766-02	2.843	23.97	576.0
645	5.5650	24.576	2320.0	.1752-03	.2111-03	.2111-03	.9000	.6136-05	.7393-05	.4701-02	.3564-01	536.6
645	5.5650	24.913	2321.0	.5494-03	.6619-03	.6619-03	.9000	.1924-04	.2318-04	.1474-01	.1244	536.3
645	5.5650	25.476	2322.0	.1685-02	.2030-02	.2030-02	.9000	.5900-04	.7110-04	.4517-01	.3740	537.2
645	5.5650	26.038	2323.0	.2435-02	.2934-02	.2934-02	.9000	.8527-04	.1028-03	.6526-01	.5031	537.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U135)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
655	2.999	7.990	40.01	.6952-02	675.0	1330.	96.58	.6970-01	3.115	3849.	.1948-02	.7772-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
655	.4369-01	.2340-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
655	4.6920	24.576	2341.0	.1341	.1630	.1630	.9000	.5861-02	.7123-02	4.397	32.08	579.5
655	4.6920	24.913	2342.0	.1913	.2340	.2340	.9000	.8360-02	.1022-01	6.095	41.26	600.5
655	4.7220	25.475	2343.0	.2160	.2653	.2653	.9000	.9436-02	.1159-01	6.753	46.87	614.1
655	4.7590	26.038	2344.0	.1774	.2162	.2162	.9000	.7751-02	.9444-02	5.748	40.41	588.1
655	4.9020	24.576	2336.0	.8584-01	.1037	.1037	.9000	.3750-02	.4530-02	2.897	21.38	557.1
655	4.9020	24.913	2337.0	.1932	.2356	.2356	.9000	.8439-02	.1030-01	6.224	43.67	592.1
655	4.9020	25.575	2338.0	.1906	.2329	.2329	.9000	.8327-02	.1018-01	6.094	47.20	597.9
655	4.9020	26.138	2339.0	.1515	.1846	.1846	.9000	.6617-02	.8064-02	4.903	41.09	588.7
655	5.5650	24.576	2320.0	.7618-03	.9144-03	.9144-03	.9000	.3328-04	.3995-04	.2651-01	.2013	533.1
655	5.5650	24.913	2321.0	.7702-03	.9244-03	.9244-03	.9000	.3365-04	.4038-04	.2684-01	.2270	532.1
655	5.5650	25.476	2322.0	.2674-02	.3210-02	.3210-02	.9000	.1168-03	.1402-03	.9310-01	.7726	532.8
655	5.5650	26.038	2323.0	.3917-02	.4703-02	.4703-02	.9000	.1711-03	.2054-03	.1363	1.053	533.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U136)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
637	.5033	7.900	39.93	-.6897-02	99.99	1249.	92.62	.1111-01	.4855	3727.	.3238-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
637	.1706-01	.5702-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
637	4.6920	24.576	2341.0	.5842-01	.7089-01	.7089-01	.9000	.9968-03	.1209-02	.7078	5.271	538.6
637	4.6920	24.913	2342.0	.9679-01	.1177	.1177	.9000	.1651-02	.2008-02	1.162	8.085	545.1
637	4.7220	25.475	2343.0	.8498-01	.1033	.1033	.9000	.1450-02	.1762-02	1.023	7.353	543.2
637	4.7590	26.038	2344.0	.7084-01	.8596-01	.8596-01	.9000	.1209-02	.1467-02	.8578	6.181	538.9
637	4.9020	24.576	2336.0	.4144-01	.5021-01	.5021-01	.9000	.7070-03	.8565-03	.5058	3.777	533.3
637	4.9020	24.913	2337.0	.9495-01	.1153	.1153	.9000	.1620-02	.1968-02	1.145	8.234	542.1
637	4.9020	25.575	2338.0	.9728-01	.1182	.1182	.9000	.1660-02	.2016-02	1.172	9.333	542.5
637	4.9020	26.138	2339.0	.5209-01	.6320-01	.6320-01	.9000	.8887-03	.1078-02	.6312	5.424	538.4
637	5.5650	24.913	2321.0	.5555-03	.6719-03	.6719-03	.9000	.9478-05	.1146-04	.6830-02	.5789-01	528.0
637	5.5650	25.476	2322.0	.1366-02	.1653-02	.1653-02	.9000	.2331-04	.2820-04	.1678-01	.1395	528.9
637	5.5650	26.038	2323.0	.1679-02	.2032-02	.2032-02	.9000	.2865-04	.3466-04	.2061-01	.1596	529.1



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U136)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
663	1.016	7.940	39.97	-4643-06	207.3	1260.	92.56	.2230-01	.9840	3745.	.6501-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
663	.2433-01	.4028-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
663	4.6920	24.576	2341.0	.6028-01	.7310-01	.7310-01	.9000	.1466-02	.1778-02	1.053	7.831	541.4
663	4.6920	24.913	2342.0	.1088	.1323	.1323	.9000	.2646-02	.3218-02	1.876	13.02	550.6
663	4.7220	25.475	2343.0	.1029	.1251	.1251	.9000	.2503-02	.3043-02	1.776	12.73	549.9
663	4.7590	26.038	2344.0	.7739-01	.9379-01	.9379-01	.9000	.1883-02	.2282-02	1.356	9.771	539.3
663	4.9020	24.576	2336.0	.4333-01	.5241-01	.5241-01	.9000	.1054-02	.1275-02	.7658	5.719	533.1
663	4.9020	24.913	2337.0	.1095	.1331	.1331	.9000	.2664-02	.3237-02	1.898	13.62	547.2
663	4.9020	25.575	2338.0	.1115	.1355	.1355	.9000	.2713-02	.3297-02	1.927	15.30	549.2
663	4.9020	26.138	2339.0	.6575-01	.7975-01	.7975-01	.9000	.1599-02	.1940-02	1.148	9.844	542.1
663	5.5650	24.576	2320.0	.4642-03	.5604-03	.5604-03	.9000	.1129-04	.1363-04	.8280-02	.6309-01	526.4
663	5.5650	24.913	2321.0	.2954-03	.3567-03	.3567-03	.9000	.7187-05	.8677-05	.5272-02	.4473-01	526.1
663	5.5650	25.476	2322.0	.2021-02	.2440-02	.2440-02	.9000	.4915-04	.5934-04	.3604-01	.3001	526.3
663	5.5650	26.038	2323.0	.2722-02	.3286-02	.3286-02	.9000	.6621-04	.7994-04	.4853-01	.3762	526.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U1361)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = .0000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
643	2.006	7.980	39.98	-1040-01	434.5	1299.	94.54	.4523-01	2.016	3804.	.1291-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
643	.3501-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
643	4.6920	24.576	2341.0	.8397-01	.1018	.1018	.9000	.2939-02	.3565-02	2.175	16.03	558.8
643	4.6920	24.913	2342.0	.1386	.1690	.1690	.9000	.4853-02	.5915-02	3.510	24.05	575.5
643	4.7220	25.475	2343.0	.1451	.1773	.1773	.9000	.5080-02	.6206-02	3.636	25.63	582.9
643	4.7590	26.038	2344.0	.1237	.1505	.1505	.9000	.4332-02	.5267-02	3.168	22.50	567.4
643	4.9020	24.576	2336.0	.5877-01	.7099-01	.7099-01	.9000	.2057-02	.2485-02	1.551	11.52	544.6
643	4.9020	24.913	2337.0	.1393	.1694	.1694	.9000	.4876-02	.5932-02	3.559	25.26	568.7
643	4.9020	25.575	2338.0	.1353	.1649	.1649	.9000	.4738-02	.5771-02	3.437	26.95	573.2
643	4.9020	26.138	2339.0	.1115	.1357	.1357	.9000	.3903-02	.4751-02	2.840	24.00	571.1
643	5.5650	24.576	2320.0	.1723-03	.2071-03	.2071-03	.9000	.6031-05	.7250-05	.4659-02	.3550-01	526.2
643	5.5650	24.913	2321.0	.5133-03	.6170-03	.6170-03	.9000	.1797-04	.2160-04	.1387-01	.1177	526.4
643	5.5650	25.476	2322.0	.1912-02	.2299-02	.2299-02	.9000	.6694-04	.8048-04	.5167-01	.4300	526.9
643	5.5650	26.038	2323.0	.2622-02	.3153-02	.3153-02	.9000	.9180-04	.1104-03	.7082-01	.5487	527.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U136)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
653	2.998	7.990	40.02	.6962-02	672.4	1327.	96.36	.6944-01	3.103	3845.	.1945-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
653	.4359-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
653	4.6920	24.576	2341.0	.1334	.1622	.1622	.9000	.5816-02	.7071-02	4.346	31.71	579.3
653	4.6920	24.913	2342.0	.1937	.2370	.2370	.9000	.8443-02	.1033-01	6.134	41.53	600.2
653	4.7220	25.475	2343.0	.2148	.2638	.2638	.9000	.9361-02	.1150-01	6.676	46.35	613.5
653	4.7590	26.038	2344.0	.1806	.2201	.2201	.9000	.7871-02	.9594-02	5.814	40.87	588.1
653	4.9020	24.576	2336.0	.8504-01	.1028	.1028	.9000	.3707-02	.4480-02	2.851	21.02	557.7
653	4.9020	24.913	2337.0	.1931	.2356	.2356	.9000	.8416-02	.1027-01	6.183	43.39	592.0
653	4.9020	25.575	2338.0	.1905	.2329	.2329	.9000	.8305-02	.1015-01	6.056	46.92	597.4
653	4.9020	26.138	2339.0	.1518	.1850	.1850	.9000	.6615-02	.8065-02	4.881	40.90	588.8
653	5.5650	24.576	2320.0	.6194-03	.7437-03	.7437-03	.9000	.2700-04	.3242-04	.2143-01	.1627	533.1
653	5.5650	24.913	2321.0	.8660-03	.1040-02	.1040-02	.9000	.3775-04	.4532-04	.2998-01	.2535	532.5
653	5.5650	25.476	2322.0	.2532-02	.3041-02	.3041-02	.9000	.1104-03	.1325-03	.8760-01	.7269	533.0
653	5.5650	26.038	2323.0	.3884-02	.4664-02	.4664-02	.9000	.1693-03	.2033-03	.1343	1.037	533.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U137)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = 5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
639	.5035	7.900	39.95	-.1383-01	99.79	1247.	92.47	.1109-01	.4845	3724.	.3237-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
639	.1704-01	.5702-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
639	4.6920	24.576	2341.0	.5901-01	.7154-01	.7154-01	.9000	.1006-02	.1219-02	.7160	5.343	534.6
639	4.6920	24.913	2342.0	.9136-01	.1110	.1110	.9000	.1557-02	.1891-02	1.098	7.655	541.4
639	4.7220	25.475	2343.0	.8534-01	.1036	.1036	.9000	.1454-02	.1765-02	1.029	7.417	538.8
639	4.7590	26.038	2344.0	.6574-01	.7968-01	.7968-01	.9000	.1120-02	.1358-02	.7980	5.763	534.3
639	4.9020	24.576	2336.0	.4098-01	.4960-01	.4960-01	.9000	.6982-03	.8451-03	.5008	3.747	529.4
639	4.9020	24.913	2337.0	.9389-01	.1139	.1139	.9000	.1600-02	.1942-02	1.133	8.168	538.3
639	4.9020	25.575	2338.0	.9718-01	.1179	.1179	.9000	.1656-02	.2010-02	1.173	9.362	538.2
639	4.9020	26.138	2339.0	.5194-01	.6295-01	.6295-01	.9000	.8849-03	.1073-02	.6307	5.432	534.0
639	4.9020	24.576	2320.0	.1493-03	.1805-03	.1805-03	.9000	.2543-05	.3076-05	.1832-02	.1396-01	526.4
639	5.5650	24.913	2321.0	.1831-03	.2214-03	.2214-03	.9000	.3120-05	.3773-05	.2248-02	.1907-01	526.2
639	5.5650	25.476	2322.0	.1817-02	.2197-02	.2197-02	.9000	.3096-04	.3744-04	.2231-01	.1858	526.1
639	5.5650	26.038	2323.0	.1906-02	.2305-02	.2305-02	.9000	.3248-04	.3927-04	.2340-01	.1814	526.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U137)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
661	1.021	7.940	39.97	-.4644-06	206.8	1254.	92.12	.2224-01	.9816	3736.	.6517-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
661	.2428-01	.4021-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
661	4.6920	24.576	2341.0	.5992-01	.7273-01	.7273-01	.9000	.1455-02	.1766-02	1.035	7.696	542.0
661	4.6920	24.913	2342.0	.1010	.1229	.1229	.9000	.2452-02	.2984-02	1.722	11.95	551.2
661	4.7220	25.475	2343.0	.1035	.1259	.1259	.9000	.2512-02	.3057-02	1.767	12.66	550.4
661	4.7590	26.038	2344.0	.7597-01	.9216-01	.9216-01	.9000	.1844-02	.2237-02	1.316	9.475	540.2
661	4.9020	24.576	2336.0	.4231-01	.5122-01	.5122-01	.9000	.1027-02	.1244-02	.7397	5.523	533.4
661	4.9020	24.913	2337.0	.1089	.1325	.1325	.9000	.2645-02	.3216-02	1.867	13.39	547.7
661	4.9020	25.575	2338.0	.1100	.1338	.1338	.9000	.2670-02	.3248-02	1.880	14.91	549.6
661	4.9020	26.138	2339.0	.6549-01	.7951-01	.7951-01	.9000	.1590-02	.1930-02	1.130	9.688	542.9
661	5.5650	24.576	2320.0	.5342-03	.6455-03	.6455-03	.9000	.1297-04	.1567-04	.9436-02	.7191-01	526.1
661	5.5650	24.913	2321.0	.3367-03	.4068-03	.4068-03	.9000	.8175-05	.9876-05	.5949-02	.5047-01	526.0
661	5.5650	25.476	2322.0	.2105-02	.2543-02	.2543-02	.9000	.5111-04	.6174-04	.3719-01	.3097	526.0
661	5.5650	26.038	2323.0	.2848-02	.3441-02	.3441-02	.9000	.6915-04	.8354-04	.5030-01	.3899	526.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U137)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BOFLAP = 5.000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
641	2.028	7.980	39.99	-.6938-02	435.7	1292.	94.03	.4536-01	2.022	3794.	.1302-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
641	.3502-01	.2854-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
641	4.6920	24.576	2341.0	.8555-01	.1037	.1037	.9000	.2996-02	.3631-02	2.213	16.36	552.9
641	4.6920	24.913	2342.0	.1329	.1619	.1619	.9000	.4655-02	.5669-02	3.361	23.10	569.5
641	4.7220	25.475	2343.0	.1496	.1825	.1825	.9000	.5238-02	.6393-02	3.743	26.46	576.9
641	4.7590	26.038	2344.0	.1231	.1494	.1494	.9000	.4310-02	.5234-02	3.154	22.49	559.8
641	4.9020	24.576	2336.0	.5818-01	.7023-01	.7023-01	.9000	.2038-02	.2460-02	1.534	11.42	539.0
641	4.9020	24.913	2337.0	.1389	.1688	.1688	.9000	.4865-02	.5913-02	3.545	25.23	563.0
641	4.9020	25.575	2338.0	.1361	.1656	.1656	.9000	.4765-02	.5798-02	3.453	27.16	566.9
641	4.9020	26.138	2339.0	.1123	.1365	.1365	.9000	.3931-02	.4780-02	2.861	24.28	563.8
641	5.5650	24.576	2320.0	.2304-03	.2769-03	.2769-03	.9000	.8069-05	.9698-05	.6204-02	.4736-01	522.8
641	5.5650	24.913	2321.0	.5571-03	.6696-03	.6696-03	.9000	.1951-04	.2345-04	.1500-01	.1275	522.7
641	5.5650	25.476	2322.0	.2007-02	.2413-02	.2413-02	.9000	.7030-04	.8451-04	.5401-01	.4503	523.5
641	5.5650	26.038	2323.0	.2962-02	.3562-02	.3562-02	.9000	.1037-03	.1247-03	.7965-01	.6182	523.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U137)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
651	2.990	7.990	40.05	.3490-02	671.4	1328.	96.43	.6934-01	3.098	3846.	.1941-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
651	.4356-01	.2344-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
651	4.6920	24.576	2341.0	.1344	.1632	.1632	.9000	.5854-02	.7110-02	4.396	32.12	576.6
651	4.6920	24.913	2342.0	.1926	.2354	.2354	.9000	.8391-02	.1026-01	6.126	41.53	597.5
651	4.7220	25.475	2343.0	.2170	.2663	.2663	.9000	.9454-02	.1160-01	6.776	47.11	610.9
651	4.7590	26.038	2344.0	.1798	.2189	.2189	.9000	.7832-02	.9538-02	5.813	40.92	585.4
651	4.9020	24.576	2336.0	.8549-01	.1032	.1032	.9000	.3724-02	.4497-02	2.879	21.26	554.7
651	4.9020	24.913	2337.0	.1944	.2369	.2369	.9000	.8467-02	.1032-01	6.255	43.96	588.8
651	4.9020	25.575	2338.0	.1917	.2341	.2341	.9000	.8351-02	.1020-01	6.122	47.49	594.6
651	4.9020	26.138	2339.0	.1526	.1858	.1858	.9000	.6646-02	.8095-02	4.928	41.35	586.1
651	5.5650	24.576	2320.0	.5953-03	.7144-03	.7144-03	.9000	.2593-04	.3112-04	.2065-01	.1570	531.2
651	5.5650	24.913	2321.0	.7923-03	.9386-03	.9386-03	.9000	.3408-04	.4089-04	.2717-01	.2300	530.3
651	5.5650	25.476	2322.0	.2277-02	.2733-02	.2733-02	.9000	.9921-04	.1190-03	.7904-01	.6565	530.9
651	5.5650	26.038	2323.0	.3738-02	.4487-02	.4487-02	.9000	.1629-03	.1955-03	.1296	1.002	531.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U138)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
631	.5096	7.900	39.97	.1384-01	101.0	1247.	92.47	.1122-01	.4903	3724.	.3276-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
631	.1714-01	.5668-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
631	4.6920	24.576	2341.0	.6507-01	.7888-01	.7888-01	.9000	.1115-02	.1352-02	.7942	5.925	534.7
631	4.6920	24.913	2342.0	.1131	.1373	.1373	.9000	.1938-02	.2354-02	1.368	9.544	540.6
631	4.7220	25.475	2343.0	.1511	.1838	.1838	.9000	.2590-02	.3151-02	1.815	13.03	545.0
631	4.7590	26.038	2344.0	.1103	.1339	.1339	.9000	.1890-02	.2295-02	1.337	9.633	539.3
631	4.9020	24.576	2336.0	.4328-01	.5238-01	.5238-01	.9000	.7420-03	.8979-03	.5327	3.987	528.7
631	4.9020	24.913	2337.0	.1112	.1349	.1349	.9000	.1906-02	.2312-02	1.355	9.781	535.7
631	4.9020	25.575	2338.0	.1248	.1515	.1515	.9000	.2140-02	.2597-02	1.515	12.09	538.6
631	4.9020	26.138	2339.0	.8644-01	.1049	.1049	.9000	.1482-02	.1797-02	1.052	9.044	536.9
631	5.5650	24.576	2320.0	.3381-03	.4086-03	.4086-03	.9000	.5795-05	.7004-05	.4183-02	.3190-01	524.8
631	5.5650	24.913	2321.0	.5010-03	.6055-03	.6055-03	.9000	.8588-05	.1038-04	.6203-02	.5267-01	524.4
631	5.5650	25.476	2322.0	.1883-02	.2276-02	.2276-02	.9000	.3227-04	.3901-04	.2329-01	.1941	524.9
631	5.5650	26.038	2323.0	.2133-02	.2578-02	.2578-02	.9000	.3656-04	.4420-04	.2639-01	.2047	525.0



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U138)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -12.50    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
605	1.013	7.940	39.97	.1385-01	206.2	1258.	92.42	.2218-01	.9787	3742.	.6477-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
605	.2425-01	.4035-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
605	4.6920	24.576	2341.0	.6373-01	.7729-01	.7729-01	.9000	.1546-02	.1875-02	1.108	8.241	540.9
605	4.6920	24.913	2342.0	.1090	.1325	.1325	.9000	.2643-02	.3213-02	1.873	13.01	549.0
605	4.7220	25.475	2343.0	.1445	.1762	.1762	.9000	.3504-02	.4273-02	2.449	17.47	558.8
605	4.7590	26.038	2344.0	.1153	.1402	.1402	.9000	.2797-02	.3399-02	1.985	14.24	547.9
605	4.9020	24.576	2336.0	.4238-01	.5126-01	.5126-01	.9000	.1028-02	.1243-02	.7467	5.581	531.3
605	4.9020	24.913	2337.0	.1069	.1297	.1297	.9000	.2593-02	.3146-02	1.856	13.35	541.9
605	4.9020	25.575	2338.0	.1195	.1452	.1452	.9000	.2899-02	.3522-02	2.059	16.36	547.3
605	4.9020	26.138	2339.0	.9099-01	.1105	.1105	.9000	.2207-02	.2679-02	1.575	13.50	544.0
605	5.5650	24.576	2320.0	.4608-03	.5564-03	.5564-03	.9000	.1118-04	.1350-04	.8183-02	.6238-01	525.6
605	5.5650	24.913	2321.0	.4985-03	.6018-03	.6018-03	.9000	.1209-04	.1460-04	.8863-02	.7524-01	524.7
605	5.5650	25.476	2322.0	.2112-02	.2551-02	.2551-02	.9000	.5123-04	.6186-04	.3750-01	.3123	525.7
605	5.5650	26.038	2323.0	.1514-02	.1827-02	.1827-02	.9000	.3671-04	.4432-04	.2688-01	.2085	525.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U138)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
603	2.009	7.980	39.99	.1734-01	434.1	1297.	94.40	.4519-01	2.014	3801.	.1292-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
603	.3498-01	.2866-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
603	4.6920	24.576	2341.0	.8598-01	.1042	.1042	.9000	.3008-02	.3645-02	2.229	16.46	555.4
603	4.6920	24.913	2342.0	.1313	.1597	.1597	.9000	.4593-02	.5585-02	3.354	23.09	566.5
603	4.7220	25.475	2343.0	.1631	.1994	.1994	.9000	.5706-02	.6974-02	4.070	28.68	583.4
603	4.7590	26.038	2344.0	.1432	.1743	.1743	.9000	.5010-02	.6095-02	3.646	25.88	568.8
603	4.9020	24.575	2336.0	.5225-01	.6304-01	.6304-01	.9000	.1828-02	.2205-02	1.384	10.30	539.4
603	4.9020	24.913	2337.0	.1144	.1385	.1385	.9000	.4000-02	.4845-02	2.973	21.26	553.5
603	4.9020	25.575	2338.0	.1257	.1527	.1527	.9000	.4396-02	.5341-02	3.222	25.38	563.7
603	4.9020	26.138	2339.0	.1100	.1335	.1335	.9000	.3847-02	.4671-02	2.828	24.01	561.7
603	5.5650	24.576	2320.0	.9337-03	.1124-02	.1124-02	.9000	.3266-04	.3931-04	.2506-01	.1906	529.5
603	5.5650	24.913	2321.0	.5484-03	.6597-03	.6597-03	.9000	.1918-04	.2308-04	.1474-01	.1249	528.3
603	5.5650	25.476	2322.0	.2283-02	.2747-02	.2747-02	.9000	.7986-04	.9610-04	.6128-01	.5095	529.3
603	5.5650	26.038	2323.0	.1468-02	.1766-02	.1766-02	.9000	.5136-04	.6179-04	.3944-01	.3054	528.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U138)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = -12.50 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
581	2.994	7.990	40.05	.1047-01	671.7	1327.	96.36	.6937-01	3.100	3845.	.1943-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
581	.4357-01	.2342-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
581	4.6920	24.576	2341.0	.1301	.1582	.1582	.9000	.5666-02	.6892-02	4.227	30.82	580.7
581	4.6920	24.913	2342.0	.1578	.1926	.1926	.9000	.6873-02	.8393-02	5.035	34.19	594.0
581	4.7220	25.475	2343.0	.2152	.2646	.2646	.9000	.9378-02	.1153-01	6.666	46.23	615.8
581	4.7590	26.038	2344.0	.1962	.2402	.2402	.9000	.8550-02	.1047-01	6.195	43.25	602.1
581	4.9020	24.576	2336.0	.7061-01	.8531-01	.8531-01	.9000	.3076-02	.3717-02	2.368	17.47	556.9
581	4.9020	24.913	2337.0	.1282	.1556	.1556	.9000	.5584-02	.6780-02	4.198	29.71	574.9
581	4.9020	25.575	2338.0	.1525	.1864	.1864	.9000	.6645-02	.8120-02	4.851	37.60	596.6
581	4.9020	26.138	2339.0	.1396	.1702	.1702	.9000	.6080-02	.7417-02	4.474	37.45	590.9
581	5.5650	24.576	2320.0	.2236-02	.2689-02	.2689-02	.9000	.9739-04	.1171-03	.7667-01	.5803	539.5
581	5.5650	24.913	2321.0	.5970-03	.7176-03	.7176-03	.9000	.2601-04	.3126-04	.2053-01	.1732	537.3
581	5.5650	25.476	2322.0	.1940-02	.2332-02	.2332-02	.9000	.8451-04	.1016-03	.6661-01	.5512	538.4
581	5.5650	26.038	2323.0	.7039-03	.8461-03	.8461-03	.9000	.3067-04	.3686-04	.2421-01	.1866	537.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U139)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
621	.4994	7.900	39.93	.1380-01	97.55	1235.	91.58	.1084-01	.4736	3706.	.3195-03	.7369-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
621	.1682-01	.5733-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
621	4.6920	24.576	2341.0	.6327-01	.7680-01	.7680-01	.9000	.1064-02	.1292-02	.7462	5.572	533.4
621	4.6920	24.913	2342.0	.1168	.1420	.1420	.9000	.1964-02	.2388-02	1.366	9.532	539.3
621	4.7220	25.475	2343.0	.1457	.1775	.1775	.9000	.2451-02	.2986-02	1.689	12.13	545.6
621	4.7590	26.038	2344.0	.1109	.1349	.1349	.9000	.1866-02	.2268-02	1.298	9.351	539.0
621	4.9020	24.576	2336.0	.4347-01	.5267-01	.5267-01	.9000	.7311-03	.8858-03	.5164	3.866	528.3
621	4.9020	24.913	2337.0	.1113	.1351	.1351	.9000	.1872-02	.2273-02	1.309	9.452	535.1
621	4.9020	25.575	2338.0	.1238	.1505	.1505	.9000	.2082-02	.2531-02	1.450	11.57	538.5
621	4.9020	26.138	2339.0	.8051-01	.9784-01	.9784-01	.9000	.1354-02	.1646-02	.9442	8.118	537.4
621	5.5650	24.913	2321.0	.2875-03	.3477-03	.3477-03	.9000	.4635-05	.5848-05	.3445-02	.2929-01	522.1
621	5.5650	25.476	2322.0	.1480-02	.1790-02	.1790-02	.9000	.2489-04	.3011-04	.1772-01	.1478	522.8
621	5.5650	26.038	2323.0	.1464-02	.1771-02	.1771-02	.9000	.2462-04	.2978-04	.1752-01	.1361	522.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U139)

AFT FUSE.ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
615	1.002	7.940	39.97	.1384-01	204.7	1261.	92.64	.2202-01	.9716	3746.	.6415-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
615	.2418-01	.4055-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
615	4.6920	24.576	2341.0	.6802-01	.8243-01	.8243-01	.9000	.1645-02	.1993-02	1.186	8.830	539.3
615	4.6920	24.913	2342.0	.1085	.1319	.1319	.9000	.2624-02	.3189-02	1.869	12.98	548.6
615	4.7220	25.475	2343.0	.1477	.1800	.1800	.9000	.3571-02	.4352-02	2.509	17.90	558.2
615	4.7590	26.038	2344.0	.1154	.1401	.1401	.9000	.2789-02	.3388-02	1.989	14.27	547.6
615	4.9020	24.576	2336.0	.4194-01	.5070-01	.5070-01	.9000	.1014-02	.1226-02	.7396	5.529	531.2
615	4.9020	24.913	2337.0	.1065	.1291	.1291	.9000	.2574-02	.3121-02	1.852	13.33	541.2
615	4.9020	25.575	2338.0	.1205	.1463	.1463	.9000	.2912-02	.3536-02	2.080	16.53	546.4
615	4.9020	26.138	2339.0	.9151-01	.1110	.1110	.9000	.2212-02	.2684-02	1.585	13.59	544.0
615	5.5650	24.576	2320.0	.5929-03	.7156-03	.7156-03	.9000	.1433-04	.1730-04	.1054-01	.8038-01	525.2
615	5.5650	24.913	2321.0	.3703-03	.4469-03	.4469-03	.9000	.8953-05	.1080-04	.6588-02	.5593-01	524.8
615	5.5650	25.476	2322.0	.2271-02	.2741-02	.2741-02	.9000	.5490-04	.6625-04	.4038-01	.3364	525.2
615	5.5650	26.038	2323.0	.1640-02	.1979-02	.1979-02	.9000	.3966-04	.4785-04	.2918-01	.2263	524.9

DATE 23 FEB 80

OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH848 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U139

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = -5.000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
593	2.004	7.980	40.00	.1389-01	436.0	1303.	94.84	.4539-01	2.023	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
593	.3509-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF P=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
593	4.6920	24.576	2341.0	.8352-01	.1012	.1012	.9000	.2930-02	.3552-02	2.180	16.07	558.6
593	4.6920	24.913	2342.0	.1258	.1530	.1530	.9000	.4413-02	.5367-02	3.231	22.20	570.4
593	4.7220	25.475	2343.0	.1550	.1895	.1895	.9000	.5438-02	.6650-02	3.884	27.30	588.3
593	4.7590	26.038	2344.0	.1381	.1681	.1681	.9000	.4844-02	.5899-02	3.530	24.99	573.9
593	4.9020	24.576	2336.0	.5288-01	.6379-01	.6379-01	.9000	.1855-02	.2238-02	1.412	10.50	541.5
593	4.9020	24.913	2337.0	.1121	.1358	.1358	.9000	.3933-02	.4766-02	2.932	20.93	557.2
593	4.9020	25.575	2338.0	.1203	.1462	.1462	.9000	.4221-02	.5131-02	3.102	24.39	567.9
593	4.9020	26.138	2339.0	.1068	.1298	.1298	.9000	.3747-02	.4553-02	2.759	23.37	566.4
593	5.5650	24.576	2320.0	.7650-03	.9197-03	.9197-03	.9000	.2684-04	.3227-04	.2079-01	.1583	528.0
593	5.5650	24.913	2321.0	.6026-03	.7243-03	.7243-03	.9000	.2114-04	.2541-04	.1639-01	.1390	527.2
593	5.5650	25.476	2322.0	.2094-02	.2517-02	.2517-02	.9000	.7345-04	.8830-04	.5690-01	.4734	528.0
593	5.5650	26.038	2323.0	.1302-02	.1565-02	.1565-02	.9000	.4569-04	.5492-04	.3542-01	.2744	527.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U139)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
579	2.997	7.990	40.02	.1044-01	670.8	1325.	96.21	.6927-01	3.096	3842.	.1943-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
579	.4353-01	.2342-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
579	4.6920	24.576	2341.0	.1284	.1564	.1564	.9000	.5587-02	.6806-02	4.134	30.08	584.8
579	4.6920	24.913	2342.0	.1579	.1931	.1931	.9000	.6872-02	.8405-02	4.993	33.83	598.2
579	4.7220	25.475	2343.0	.2135	.2629	.2629	.9000	.9293-02	.1144-01	5.547	45.31	620.1
579	4.7590	26.038	2344.0	.1975	.2422	.2422	.9000	.8599-02	.1054-01	6.175	43.01	606.6
579	4.9020	24.576	2336.0	.6993-01	.8461-01	.8461-01	.9000	.3044-02	.3683-02	2.324	17.11	561.3
579	4.9020	24.913	2337.0	.1268	.1542	.1542	.9000	.5519-02	.6712-02	4.114	29.05	579.3
579	4.9020	25.575	2338.0	.1518	.1858	.1858	.9000	.6606-02	.8087-02	4.779	36.96	601.2
579	4.9020	26.138	2339.0	.1376	.1681	.1681	.9000	.5988-02	.7318-02	4.366	36.46	595.6
579	5.5650	24.576	2320.0	.2162-02	.2601-02	.2601-02	.9000	.9408-04	.1132-03	.7371-01	.5574	541.3
579	5.5650	24.913	2321.0	.6332-03	.7617-03	.7617-03	.9000	.2756-04	.3315-04	.2164-01	.1823	539.5
579	5.5650	25.475	2322.0	.5020-02	.6043-02	.6043-02	.9000	.2185-03	.2630-03	.1710	1.413	541.9
579	5.5650	26.038	2323.0	.4139-02	.4980-02	.4980-02	.9000	.1801-03	.2168-03	.1411	1.086	541.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1075

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U140)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPD BRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
623	X10 6 .4983	7.900	39.97	.1384-01	99.83	1256.	93.14	.1109-01	.4847	3737.	.3215-03	.7495-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
623	.1706-01	.5726-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
623	4.6920	24.576	2341.0	.6365-01	.7705-01	.7705-01	.9000	.1086-02	.1315-02	.7841	5.853	533.7
623	4.6920	24.913	2342.0	.1174	.1424	.1424	.9000	.2003-02	.2429-02	1.433	10.00	540.0
623	4.7220	25.475	2343.0	.1462	.1776	.1776	.9000	.2495-02	.3031-02	1.772	12.72	545.6
623	4.7590	26.038	2344.0	.1146	.1389	.1389	.9000	.1955-02	.2371-02	1.401	10.09	539.2
623	4.9020	24.576	2335.0	.4327-01	.5228-01	.5228-01	.9000	.7384-03	.8922-03	.5378	4.028	527.3
623	4.9020	24.913	2337.0	.1101	.1333	.1333	.9000	.1878-02	.2275-02	1.354	9.775	534.9
623	4.9020	25.575	2338.0	.1226	.1486	.1486	.9000	.2092-02	.2536-02	1.501	11.98	538.2
623	4.9020	26.138	2339.0	.8537-01	.1034	.1034	.9000	.1457-02	.1765-02	1.048	9.012	536.4
623	5.5650	24.576	2320.0	.2185-03	.2636-03	.2636-03	.9000	.3728-05	.4498-05	.2734-02	.2088-01	522.3
623	5.5650	24.913	2321.0	.3885-03	.4688-03	.4688-03	.9000	.6630-05	.7999-05	.4863-02	.4134-01	522.2
623	5.5650	25.476	2322.0	.1496-02	.1805-02	.1805-02	.9000	.2553-04	.3080-04	.1871-01	.1561	522.7
623	5.5650	26.038	2323.0	.1713-02	.2067-02	.2067-02	.9000	.2923-04	.3527-04	.2142-01	.1663	522.8



DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1076

OH84B 60-O AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U140)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
613	1.004	7.940	39.97	.1731-01	204.8	1260.	92.56	.2203-01	.9721	3745.	.6423-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
613	.2418-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
613	4.6920	24.576	2341.0	.6369-01	.7721-01	.7721-01	.9000	.1540-02	.1867-02	1.108	8.243	540.2
613	4.6920	24.913	2342.0	.1135	.1380	.1380	.9000	.2745-02	.3336-02	1.953	13.56	548.4
613	4.7220	25.475	2343.0	.1455	.1773	.1773	.9000	.3517-02	.4287-02	2.467	17.60	558.3
613	4.7590	26.038	2344.0	.1174	.1426	.1426	.9000	.2837-02	.3448-02	2.019	14.48	548.1
613	4.9020	24.576	2336.0	.4236-01	.5121-01	.5121-01	.9000	.1024-02	.1238-02	.7460	5.576	531.2
613	4.9020	24.913	2337.0	.1070	.1297	.1297	.9000	.2587-02	.3137-02	1.858	13.37	541.5
613	4.9020	25.575	2338.0	.1204	.1463	.1463	.9000	.2911-02	.3536-02	2.075	16.49	546.8
613	4.9020	26.138	2339.0	.9134-01	.1109	.1109	.9000	.2208-02	.2681-02	1.579	13.53	544.5
613	5.5650	24.576	2320.0	.7239-03	.8735-03	.8735-03	.9000	.1750-04	.2112-04	.1287-01	.9815-01	524.4
613	5.5650	24.913	2321.0	.4713-03	.5687-03	.5687-03	.9000	.1139-04	.1375-04	.8381-02	.7118-01	524.2
613	5.5650	25.476	2322.0	.2388-02	.2882-02	.2882-02	.9000	.5774-04	.6968-04	.4243-01	.3536	524.7
613	5.5650	26.038	2323.0	.1691-02	.2040-02	.2040-02	.9000	.4088-04	.4933-04	.3005-01	.2331	524.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1077

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U140)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
595	2.001	7.990	40.02	.1392-01	435.8	1304.	94.91	.4537-01	2.022	3811.	.1290-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
595	.3508-01	.2869-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
595	4.6920	24.576	2341.0	.8360-01	.1013	.1013	.9000	.2933-02	.3555-02	2.184	16.09	559.1
595	4.6920	24.913	2342.0	.1279	.1555	.1555	.9000	.4486-02	.5456-02	3.287	22.58	570.9
595	4.7220	25.475	2343.0	.1572	.1923	.1923	.9000	.5515-02	.6745-02	3.943	27.71	588.7
595	4.7590	26.038	2344.0	.1368	.1666	.1666	.9000	.4798-02	.5844-02	3.496	24.73	575.1
595	4.9020	24.576	2336.0	.5223-01	.6302-01	.6302-01	.9000	.1832-02	.2211-02	1.395	10.37	542.3
595	4.9020	24.913	2337.0	.1107	.1341	.1341	.9000	.3884-02	.4706-02	2.898	20.69	557.5
595	4.9020	25.575	2338.0	.1215	.1477	.1477	.9000	.4263-02	.5181-02	3.135	24.64	568.3
595	4.9020	26.138	2339.0	.1083	.1315	.1315	.9000	.3798-02	.4615-02	2.797	23.69	567.2
595	5.5650	24.576	2320.0	.8010-03	.9630-03	.9630-03	.9000	.2810-04	.3378-04	.2177-01	.1657	528.9
595	5.5650	24.913	2321.0	.4987-03	.5995-03	.5995-03	.9000	.1750-04	.2103-04	.1357-01	.1151	527.9
595	5.5650	25.476	2322.0	.2052-02	.2467-02	.2467-02	.9000	.7197-04	.8653-04	.5576-01	.4636	528.9
595	5.5650	26.038	2323.0	.1245-02	.1496-02	.1496-02	.9000	.4367-04	.5250-04	.3385-01	.2621	528.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U140)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
577	3.019	7.990	40.06	.6989-02	670.3	1318.	95.71	.6922-01	3.093	3832.	.1952-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
577	.4347-01	.2335-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
577	4.6920	24.576	2341.0	.1305	.1589	.1589	.9000	.5673-02	.6907-02	4.181	30.48	580.6
577	4.6920	24.913	2342.0	.1610	.1968	.1968	.9000	.6997-02	.8553-02	5.066	34.41	593.6
577	4.7220	25.475	2343.0	.2184	.2688	.2688	.9000	.9492-02	.1169-01	6.664	46.22	615.6
577	4.7590	26.038	2344.0	.2018	.2474	.2474	.9000	.8771-02	.1075-01	6.269	43.75	603.0
577	4.9020	24.576	2336.0	.6972-01	.8434-01	.8434-01	.9000	.3031-02	.3666-02	2.303	16.98	557.8
577	4.9020	24.913	2337.0	.1288	.1566	.1566	.9000	.5599-02	.6807-02	4.158	29.42	575.0
577	4.9020	25.575	2338.0	.1555	.1904	.1904	.9000	.6760-02	.8275-02	4.867	37.70	597.8
577	4.9020	26.138	2339.0	.1409	.1721	.1721	.9000	.6123-02	.7483-02	4.442	37.15	592.3
577	5.5650	24.576	2320.0	.2291-02	.2757-02	.2757-02	.9000	.9960-04	.1198-03	.7772-01	.5890	537.3
577	5.5650	24.913	2321.0	.8745-03	.1052-02	.1052-02	.9000	.3802-04	.4572-04	.2972-01	.2508	536.0
577	5.5650	25.476	2322.0	.5061-02	.6091-02	.6091-02	.9000	.2200-03	.2648-03	.1715	1.419	538.4
577	5.5650	26.038	2323.0	.4615-02	.5553-02	.5553-02	.9000	.2006-03	.2414-03	.1565	1.206	537.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U141)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = 5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
625	.5056	7.900	39.96	.1729-01	100.1	1246.	92.40	.1112-01	.4859	3723.	.3249-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
625	.1706-01	.5691-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
625	4.6920	24.576	2341.0	.6382-01	.7735-01	.7735-01	.9000	.1089-02	.1320-02	.7754	5.789	533.5
625	4.6920	24.913	2342.0	.1203	.1461	.1461	.9000	.2052-02	.2492-02	1.449	10.11	539.5
625	4.7220	25.475	2343.0	.1462	.1779	.1779	.9000	.2495-02	.3035-02	1.748	12.55	545.2
625	4.7590	26.038	2344.0	.1176	.1428	.1428	.9000	.2007-02	.2436-02	1.419	10.22	538.7
625	4.9020	24.576	2336.0	.4411-01	.5336-01	.5336-01	.9000	.7525-03	.9104-03	.5404	4.047	527.5
625	4.9020	24.913	2337.0	.1128	.1367	.1367	.9000	.1924-02	.2333-02	1.368	9.877	534.8
625	4.9020	25.575	2338.0	.1241	.1506	.1506	.9000	.2117-02	.2570-02	1.499	11.96	537.8
625	4.9020	26.138	2339.0	.8595-01	.1043	.1043	.9000	.1466-02	.1779-02	1.040	8.951	536.1
625	5.5650	24.576	2320.0	.2029-03	.2451-03	.2451-03	.9000	.3461-05	.4182-05	.2501-02	.1909-01	523.0
625	5.5650	24.913	2321.0	.4141-03	.5003-03	.5003-03	.9000	.7065-05	.8536-05	.5107-02	.4340-01	522.8
625	5.5650	25.476	2322.0	.1733-02	.2094-02	.2094-02	.9000	.2956-04	.3573-04	.2136-01	.1781	523.3
625	5.5650	26.038	2323.0	.1644-02	.1986-02	.1986-02	.9000	.2804-04	.3388-04	.2025-01	.1572	523.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U141)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = 5.000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
611	.9967	7.940	39.96	.1384-01	204.6	1265.	92.93	.2201-01	.9711	3752.	.6391-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
611	.2418-01	.4064-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
611	4.6920	24.576	2341.0	.6757-01	.8182-01	.8182-01	.9000	.1634-02	.1979-02	1.186	8.834	538.7
611	4.6920	24.913	2342.0	.1071	.1300	.1300	.9000	.2589-02	.3144-02	1.855	12.89	548.3
611	4.7220	25.475	2343.0	.1457	.1775	.1775	.9000	.3524-02	.4292-02	2.489	17.76	558.2
611	4.7590	26.038	2344.0	.1147	.1392	.1392	.9000	.2773-02	.3367-02	1.989	14.27	547.4
611	4.9020	24.576	2336.0	.4264-01	.5151-01	.5151-01	.9000	.1031-02	.1246-02	.7576	5.666	530.0
611	4.9020	24.913	2337.0	.1065	.1290	.1290	.9000	.2575-02	.3120-02	1.864	13.42	540.7
611	4.9020	25.575	2338.0	.1195	.1450	.1450	.9000	.2890-02	.3507-02	2.076	16.50	546.4
611	4.9020	26.138	2339.0	.9079-01	.1101	.1101	.9000	.2196-02	.2663-02	1.583	13.56	543.9
611	5.5650	24.576	2320.0	.5770-03	.6957-03	.6957-03	.9000	.1395-04	.1682-04	.1034-01	.7888-01	523.8
611	5.5650	24.313	2321.0	.2721-03	.3281-03	.3281-03	.9000	.6580-05	.7934-05	.4877-02	.4143-01	523.5
611	5.5650	25.476	2322.0	.2227-02	.2685-02	.2685-02	.9000	.5384-04	.6493-04	.3989-01	.3326	523.7
611	5.5650	26.038	2323.0	.1526-02	.1840-02	.1840-02	.9000	.3690-04	.4449-04	.2734-01	.2123	523.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U141)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
597	2.013	7.980	40.02	.1392-01	434.8	1297.	94.40	.4526-01	2.018	3801.	.1294-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
597	.3501-01	.2863-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	JAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
597	4.6920	24.576	2341.0	.8587-01	.1041	.1041	.9000	.3006-02	.3644-02	2.227	16.44	555.8
597	4.6920	24.913	2342.0	.1301	.1582	.1582	.9000	.4554-02	.5539-02	3.322	22.86	567.2
597	4.7220	25.475	2343.0	.1622	.1984	.1984	.9000	.5680-02	.6944-02	4.044	28.48	584.6
597	4.7590	26.038	2344.0	.1412	.1719	.1719	.9000	.4944-02	.6018-02	3.591	25.47	570.3
597	4.9020	24.576	2336.0	.5293-01	.6388-01	.6388-01	.9000	.1853-02	.2236-02	1.402	10.43	540.0
597	4.9020	24.913	2337.0	.1133	.1373	.1373	.9000	.3967-02	.4806-02	2.946	21.06	554.2
597	4.9020	25.575	2338.0	.1248	.1516	.1516	.9000	.4368-02	.5308-02	3.198	25.18	564.5
597	4.9020	26.138	2339.0	.1104	.1340	.1340	.9000	.3864-02	.4693-02	2.835	24.07	562.8
597	5.5650	24.576	2320.0	.9427-03	.1134-02	.1134-02	.9000	.3300-04	.3971-04	.2534-01	.1928	529.0
597	5.5650	24.913	2321.0	.4587-03	.5518-03	.5518-03	.9000	.1606-04	.1932-04	.1235-01	.1047	527.8
597	5.5650	25.476	2322.0	.2251-02	.2709-02	.2709-02	.9000	.7882-04	.9483-04	.6052-01	.5032	528.8
597	5.5650	26.038	2323.0	.1514-02	.1821-02	.1821-02	.9000	.5300-04	.6376-04	.4072-01	.3153	528.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1082

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U141)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
583	2.999	7.990	40.05	.1396-01	671.1	1325.	96.21	.6930-01	3.097	3842.	.1944-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
583	.4354-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
583	4.6920	24.576	2341.0	.1299	.1579	.1579	.9000	.5654-02	.6874-02	4.221	30.81	578.2
583	4.6920	24.913	2342.0	.1561	.1905	.1905	.9000	.6795-02	.8294-02	4.981	33.86	591.7
583	4.7220	25.475	2343.0	.2127	.2614	.2614	.9000	.9261-02	.1138-01	6.582	45.69	613.9
583	4.7590	26.038	2344.0	.1986	.2430	.2430	.9000	.8647-02	.1058-01	6.266	43.80	600.0
583	4.9020	24.576	2336.0	.7080-01	.8549-01	.8549-01	.9000	.3082-02	.3722-02	2.375	17.55	554.0
583	4.9020	24.913	2337.0	.1263	.1533	.1533	.9000	.5499-02	.6673-02	4.138	29.33	572.1
583	4.9020	25.575	2338.0	.1504	.1838	.1838	.9000	.6549-02	.8000-02	4.783	37.11	594.4
583	4.9020	26.138	2339.0	.1385	.1690	.1690	.9000	.6032-02	.7355-02	4.439	37.20	588.7
583	5.5650	24.576	2320.0	.1843-02	.2215-02	.2215-02	.9000	.8023-04	.9643-04	.6327-01	.4797	536.1
583	5.5650	24.913	2321.0	.6886-03	.8272-03	.8272-03	.9000	.2998-04	.3601-04	.2371-01	.2003	533.9
583	5.5650	25.476	2322.0	.2118-02	.2546-02	.2546-02	.9000	.9223-04	.1108-03	.7279-01	.6033	535.4
583	5.5650	26.038	2323.0	.7761-03	.9323-03	.9323-03	.9000	.3379-04	.4059-04	.2671-01	.2063	534.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U142)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = 8.000 SPD BRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
619	.5067	7.900	39.95	.1383-01	99.45	1239.	91.88	.1105-01	.4829	3712.	.3247-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
619	.1699-01	.5689-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
619	4.6920	24.576	2341.0	.6434-01	.7808-01	.7808-01	.9000	.1093-02	.1327-02	.7699	5.745	534.5
619	4.6920	24.913	2342.0	.1143	.1389	.1389	.9000	.1941-02	.2360-02	1.355	9.453	540.5
619	4.7220	25.475	2343.0	.1478	.1801	.1801	.9000	.2512-02	.3059-02	1.739	12.49	546.3
619	4.7590	26.038	2344.0	.1087	.1321	.1321	.9000	.1847-02	.2244-02	1.292	9.308	539.1
619	4.9020	24.576	2336.0	.4346-01	.5265-01	.5265-01	.9000	.7384-03	.8945-03	.5241	3.922	528.9
619	4.9020	24.913	2337.0	.1098	.1333	.1333	.9000	.1866-02	.2265-02	1.312	9.465	535.7
619	4.9020	25.575	2338.0	.1231	.1496	.1496	.9000	.2091-02	.2541-02	1.464	11.68	538.8
619	4.9020	26.138	2339.0	.8058-01	.9788-01	.9788-01	.9000	.1369-02	.1663-02	.9596	8.249	537.8
619	5.5650	24.576	2320.0	.3149-03	.3809-03	.3809-03	.9000	.5350-05	.6472-05	.3823-02	.2916-01	524.1
619	5.5650	24.913	2321.0	.2536-03	.3068-03	.3068-03	.9000	.4309-05	.5213-05	.3080-02	.2616-01	524.0
619	5.5650	25.476	2322.0	.1694-02	.2050-02	.2050-02	.9000	.2879-04	.3483-04	.2057-01	.1715	524.2
619	5.5650	26.038	2323.0	.1720-02	.2080-02	.2080-02	.9000	.2922-04	.3535-04	.2088-01	.1621	524.0



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U142)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
617	1.002	7.940	39.97	.1731-01	206.2	1267.	93.08	.2218-01	.9787	3755.	.6431-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
617	.2428-01	.4052-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
617	4.6920	24.576	2341.0	.6685-01	.8095-01	.8095-01	.9000	.1623-02	.1966-02	1.180	8.785	539.6
617	4.6920	24.913	2342.0	.1143	.1388	.1388	.9000	.2775-02	.3370-02	1.991	13.83	549.2
617	4.7220	25.475	2343.0	.1433	.1746	.1746	.9000	.3481-02	.4240-02	2.462	17.56	559.2
617	4.7590	26.038	2344.0	.1177	.1429	.1429	.9000	.2858-02	.3470-02	2.053	14.72	548.5
617	4.9020	24.576	2336.0	.4321-01	.5220-01	.5220-01	.9000	.1049-02	.1268-02	.7718	5.769	531.1
617	4.9020	24.913	2337.0	.1066	.1292	.1292	.9000	.2588-02	.3137-02	1.876	13.50	541.9
617	4.9020	25.575	2338.0	.1200	.1457	.1457	.9000	.2915-02	.3538-02	2.097	16.66	547.3
617	4.9020	25.138	2339.0	.9133-01	.1108	.1108	.9000	.2218-02	.2690-02	1.601	13.71	545.0
617	5.5650	24.576	2320.0	.5472-03	.6598-03	.6598-03	.9000	.1329-04	.1602-04	.9860-02	.7520-01	524.6
617	5.5650	24.913	2321.0	.3201-03	.3859-03	.3859-03	.9000	.7772-05	.9372-05	.5769-02	.4898-01	524.4
617	5.5650	25.476	2322.0	.1939-02	.2338-02	.2338-02	.9000	.4708-04	.5677-04	.3494-01	.2912	524.5
617	5.5650	26.038	2323.0	.1706-02	.2057-02	.2057-02	.9000	.4143-04	.4995-04	.3075-01	.2385	524.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U142)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 8.000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
591	1.988	7.980	40.01	.1391-01	433.9	1306.	95.05	.4517-01	2.013	3814.	.1283-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
591	.3501-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
591	4.6920	24.576	2341.0	.8317-01	.1008	.1008	.9000	.2912-02	.3529-02	2.175	16.03	558.8
591	4.6920	24.913	2342.0	.1256	.1527	.1527	.9000	.4398-02	.5348-02	3.232	22.20	570.7
591	4.7220	25.475	2343.0	.1590	.1944	.1944	.9000	.5566-02	.6805-02	3.990	28.04	588.8
591	4.7590	26.038	2344.0	.1397	.1701	.1701	.9000	.4891-02	.5954-02	3.576	25.31	574.6
591	4.9020	24.576	2336.0	.5108-01	.6162-01	.6162-01	.9000	.1789-02	.2158-02	1.366	10.15	542.1
591	4.9020	24.913	2337.0	.1125	.1363	.1363	.9000	.3940-02	.4773-02	2.948	21.04	557.5
591	4.9020	25.575	2338.0	.1222	.1485	.1485	.9000	.4278-02	.5199-02	3.154	24.79	568.5
591	4.9020	26.138	2339.0	.1075	.1306	.1306	.9000	.3764-02	.4572-02	2.781	23.55	566.9
591	5.5650	24.576	2320.0	.5856-03	.7037-03	.7037-03	.9000	.2050-04	.2464-04	.1595-01	.1214	527.9
591	5.5650	24.913	2321.0	.6486-03	.6484-03	.6484-03	.9000	.1889-04	.2270-04	.1470-01	.1246	527.6
591	5.5650	25.476	2322.0	.636-02	.2039-02	.2039-02	.9000	.5940-04	.7140-04	.4615-01	.3838	528.7
591	5.5650	26.038	2323.0	.6157-03	.1016-02	.1016-02	.9000	.2961-04	.3558-04	.2304-01	.1785	527.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U142)

AFT FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
589	3.003	7.990	40.07	.1748-01	673.7	1327.	96.36	.6957-01	3.109	3845.	.1949-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
589	.4363-01	.2339-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
589	4.6920	24.576	2341.0	.1296	.1576	.1576	.9000	.5655-02	.6876-02	4.226	30.83	579.4
589	4.6920	24.913	2342.0	.1551	.1893	.1893	.9000	.6767-02	.8262-02	4.962	33.70	593.4
589	4.7220	25.475	2343.0	.2076	.2553	.2553	.9000	.9059-02	.1114-01	6.435	44.61	616.3
589	4.7590	26.038	2344.0	.1973	.2416	.2416	.9000	.8609-02	.1054-01	6.231	43.49	602.9
589	4.9020	24.576	2336.0	.7246-01	.8747-01	.8747-01	.9000	.3162-02	.3816-02	2.445	18.07	553.4
589	4.9020	24.913	2337.0	.1258	.1526	.1526	.9000	.5488-02	.6659-02	4.140	29.34	572.2
589	4.9020	25.575	2338.0	.1476	.1804	.1804	.9000	.6441-02	.7869-02	4.706	36.49	596.0
589	4.9020	26.138	2339.0	.1390	.1695	.1695	.9000	.6063-02	.7397-02	4.460	37.33	591.0
589	5.5650	24.576	2320.0	.1012-02	.1216-02	.1216-02	.9000	.4417-04	.5304-04	.3504-01	.2660	533.3
589	5.5650	24.913	2321.0	.6749-03	.8100-03	.8100-03	.9000	.2945-04	.3534-04	.2341-01	.1981	531.6
589	5.5650	25.476	2322.0	.2126-02	.2553-02	.2553-02	.9000	.9277-04	.1114-03	.7362-01	.6108	533.1
589	5.5650	26.038	2323.0	.1258-02	.1511-02	.1511-02	.9000	.5491-04	.6591-04	.4363-01	.3373	532.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U143)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
627	X10 6 .5147	7.900	39.95	.1383-01	101.4	1242.	92.10	.1127-01	.4923	3717.	.3302-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
627	.1716-01	.5643-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
627	4.6920	24.576	2341.0	.6373-01	.7732-01	.7732-01	.9000	.1094-02	.1327-02	.7731	5.767	535.0
627	4.6920	24.913	2342.0	.1070	.1301	.1301	.9000	.1836-02	.2232-02	1.286	8.962	541.6
627	4.7220	25.475	2343.0	.1434	.1746	.1746	.9000	.2461-02	.2998-02	1.708	12.25	547.6
627	4.7590	26.038	2344.0	.8549-01	.1039	.1039	.9000	.1467-02	.1783-02	1.029	7.408	540.4
627	4.9020	24.576	2336.0	.4370-01	.5291-01	.5291-01	.9000	.7500-03	.9081-03	.5349	4.004	528.4
627	4.9020	24.913	2337.0	.1096	.1330	.1330	.9000	.1881-02	.2283-02	1.326	9.568	536.5
627	4.9020	25.575	2338.0	.1185	.1439	.1439	.9000	.2033-02	.2470-02	1.426	11.37	540.1
627	4.9020	26.138	2339.0	.7237-01	.8790-01	.8790-01	.9000	.1242-02	.1509-02	.8733	7.503	538.6
627	5.5650	24.576	2320.0	.1234-03	.1492-03	.1492-03	.9000	.2119-05	.2561-05	.1522-02	.1162-01	523.1
627	5.5650	24.913	2321.0	.2776-03	.3355-03	.3355-03	.9000	.4764-05	.5759-05	.3423-02	.2909-01	523.0
627	5.5650	25.476	2322.0	.1601-02	.1936-02	.1936-02	.9000	.2748-04	.3323-04	.1973-01	.1645	523.6
627	5.5650	26.038	2323.0	.1579-02	.1909-02	.1909-02	.9000	.2710-04	.3277-04	.1946-01	.1510	523.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U143)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
609	1.024	7.940	39.98	.1386-01	209.1	1261.	92.64	.2249-01	.9925	3746.	.6553-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
609	.2443-01	.4012-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
609	4.6920	24.576	2341.0	.6836-01	.8287-01	.8287-01	.9000	.1670-02	.2025-02	1.203	8.948	540.6
609	4.6920	24.913	2342.0	.1091	.1326	.1326	.9000	.2666-02	.3241-02	1.894	13.15	550.0
609	4.7220	25.475	2343.0	.1462	.1783	.1783	.9000	.3572-02	.4357-02	2.502	17.84	560.3
609	4.7590	26.038	2344.0	.1104	.1342	.1342	.9000	.2698-02	.3280-02	1.918	13.74	549.8
609	4.9020	24.576	2336.0	.4261-01	.5152-01	.5152-01	.9000	.1041-02	.1259-02	.7585	5.666	532.2
609	4.9020	24.913	2337.0	.1077	.1307	.1307	.9000	.2632-02	.3193-02	1.890	13.59	542.7
609	4.9020	25.575	2338.0	.1203	.1462	.1462	.9000	.2940-02	.3573-02	2.095	16.63	548.3
609	4.9020	26.138	2339.0	.8977-01	.1090	.1090	.9000	.2193-02	.2664-02	1.567	13.41	546.4
609	5.5650	24.576	2320.0	.3751-03	.4527-03	.4527-03	.9000	.9164-05	.1106-04	.6738-02	.5136-01	525.5
609	5.5650	24.913	2321.0	.3480-03	.4200-03	.4200-03	.9000	.8504-05	.1026-04	.6254-02	.5308-01	525.2
609	5.5650	25.476	2322.0	.2040-02	.2462-02	.2462-02	.9000	.4984-04	.6016-04	.3664-01	.3051	525.7
609	5.5650	26.038	2323.0	.1372-02	.1656-02	.1656-02	.9000	.3353-04	.4047-04	.2465-01	.1912	525.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U143)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
599	1.990	7.980	40.04	.1744-01	435.0	1307.	95.13	.4528-01	2.019	3815.	.1285-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
599	.3506-01	.2876-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
599	4.6920	24.576	2341.0	.8466-01	.1025	.1025	.9000	.2969-02	.3595-02	2.227	16.43	556.6
599	4.6920	24.913	2342.0	.1302	.1582	.1582	.9000	.4565-02	.5546-02	3.371	23.18	568.2
599	4.7220	25.475	2343.0	.1598	.1952	.1952	.9000	.5604-02	.6845-02	4.038	28.42	586.0
599	4.7590	26.038	2344.0	.1413	.1719	.1719	.9000	.4954-02	.6026-02	3.639	25.79	572.1
599	4.9020	24.576	2336.0	.5212-01	.6283-01	.6283-01	.9000	.1828-02	.2203-02	1.401	10.42	540.2
599	4.9020	24.913	2337.0	.1127	.1365	.1365	.9000	.3953-02	.4784-02	2.971	21.24	555.0
599	4.9020	25.575	2338.0	.1243	.1509	.1509	.9000	.4359-02	.5292-02	3.230	25.42	565.7
599	4.9020	26.138	2339.0	.1096	.1330	.1330	.9000	.3842-02	.4663-02	2.851	24.17	564.7
599	5.5650	24.576	2320.0	.9165-03	.1101-02	.1101-02	.9000	.3214-04	.3862-04	.2501-01	.1904	528.4
599	5.5650	24.913	2321.0	.5426-03	.6520-03	.6520-03	.9000	.1903-04	.2286-04	.1483-01	.1257	527.5
599	5.5650	25.476	2322.0	.2249-02	.2703-02	.2703-02	.9000	.7886-04	.9477-04	.6138-01	.5106	528.3
599	5.5650	26.038	2323.0	.1518-02	.1824-02	.1824-02	.9000	.5321-04	.6394-04	.4145-01	.3211	527.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U143)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
585	2.982	7.990	40.06	.1397-01	669.7	1328.	96.43	.6916-01	3.091	3846.	.1936-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
585	.4351-01	.2347-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
585	4.6920	24.576	2341.0	.1289	.1566	.1566	.9000	.5607-02	.6815-02	4.202	30.67	578.3
585	4.6920	24.913	2342.0	.1583	.1931	.1931	.9000	.6887-02	.8403-02	5.068	34.45	591.8
585	4.7220	25.475	2343.0	.2119	.2604	.2604	.9000	.9218-02	.1133-01	6.574	45.62	614.5
585	4.7590	26.038	2344.0	.1974	.2415	.2415	.9000	.8587-02	.1051-01	6.244	43.63	600.6
585	4.9020	24.576	2336.0	.7044-01	.8503-01	.8503-01	.9000	.3065-02	.3700-02	2.371	17.51	554.1
585	4.9020	24.913	2337.0	.1267	.1537	.1537	.9000	.5512-02	.6688-02	4.163	29.49	572.4
585	4.9020	25.575	2338.0	.1495	.1826	.1826	.9000	.6506-02	.7945-02	4.769	37.00	594.6
585	4.9020	26.138	2339.0	.1379	.1681	.1681	.9000	.6000-02	.7315-02	4.430	37.11	589.3
585	5.5650	24.576	2320.0	.1599-02	.1921-02	.1921-02	.9000	.6958-04	.8359-04	.5514-01	.4182	535.3
585	5.5650	24.913	2321.0	.6363-03	.7640-03	.7640-03	.9000	.2768-04	.3324-04	.2199-01	.1859	533.4
585	5.5650	25.476	2322.0	.2403-02	.2886-02	.2886-02	.9000	.1045-03	.1256-03	.8286-01	.6868	535.1
585	5.5650	26.038	2323.0	.8946-03	.1074-02	.1074-02	.9000	.3892-04	.4674-04	.3090-01	.2386	533.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U144)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 23.50 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
629	.5153	7.900	39.96	.1729-01	101.8	1244.	92.25	.1131-01	.4940	3720.	.3309-03	.7423-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
629	.1720-01	.5638-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
629	4.6920	24.576	2341.0	.6413-01	.7778-01	.7778-01	.9000	.1103-02	.1338-02	.7819	5.834	534.8
629	4.6920	24.913	2342.0	.1101	.1338	.1338	.9000	.1893-02	.2301-02	1.330	9.276	541.0
629	4.7220	25.475	2343.0	.1308	.1592	.1592	.9000	.2250-02	.2738-02	1.571	11.28	545.8
629	4.7590	26.038	2344.0	.2759-01	.3345-01	.3345-01	.9000	.4745-03	.5752-03	.3369	2.434	533.7
629	4.9020	24.576	2336.0	.4378-01	.5300-01	.5300-01	.9000	.7530-03	.9116-03	.5385	4.030	528.6
629	4.9020	24.913	2337.0	.1110	.1347	.1347	.9000	.1910-02	.2317-02	1.351	9.746	536.3
629	4.9020	25.575	2338.0	.1191	.1446	.1446	.9000	.2048-02	.2487-02	1.442	11.50	539.4
629	4.9020	26.138	2339.0	.3501-01	.4244-01	.4244-01	.9000	.6020-03	.7300-03	.4273	3.680	533.9
629	5.5650	24.576	2320.0	.4026-03	.4866-03	.4866-03	.9000	.6924-05	.8369-05	.4986-02	.3805-01	523.5
629	5.5650	24.913	2321.0	.3064-03	.3703-03	.3703-03	.9000	.5269-05	.6369-05	.3794-02	.3223-01	523.6
629	5.5650	25.476	2322.0	.1942-02	.2348-02	.2348-02	.9000	.3340-04	.4037-04	.2405-01	.2005	523.7
629	5.5650	26.038	2323.0	.1294-02	.1564-02	.1564-02	.9000	.2225-04	.2689-04	.1602-01	.1243	523.7



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U144)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 23.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
607	.9872	7.940	39.96	.1383-01	205.3	1276.	93.74	.2208-01	.9744	3769.	.6358-03	.7543-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
607	.2426-01	.4078-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
607	4.6920	24.576	2341.0	.6722-01	.8130-01	.8130-01	.9000	.1631-02	.1973-02	1.201	8.942	539.2
607	4.6920	24.913	2342.0	.1141	.1383	.1383	.9000	.2767-02	.3356-02	2.012	13.97	548.8
607	4.7220	25.475	2343.0	.1423	.1731	.1731	.9000	.3452-02	.4199-02	2.475	17.65	558.7
607	4.7590	26.038	2344.0	.7302-01	.8839-01	.8839-01	.9000	.1771-02	.2144-02	1.300	9.351	541.9
607	4.9020	24.576	2336.0	.4283-01	.5168-01	.5168-01	.9000	.1039-02	.1254-02	.7740	5.786	530.8
607	4.9020	24.913	2337.0	.1060	.1283	.1283	.9000	.2573-02	.3114-02	1.888	13.58	541.8
607	4.9020	25.575	2338.0	.1201	.1456	.1456	.9000	.2914-02	.3532-02	2.122	16.85	547.4
607	4.9020	26.138	2339.0	.6829-01	.8265-01	.8265-01	.9000	.1657-02	.2005-02	1.217	10.44	541.4
607	5.5650	24.576	2320.0	.5552-03	.6688-03	.6688-03	.9000	.1347-04	.1623-04	.1012-01	.7722-01	524.2
607	5.5650	24.913	2321.0	.4881-03	.5878-03	.5878-03	.9000	.1184-04	.1426-04	.8903-02	.7562-01	523.8
607	5.5650	25.476	2322.0	.2168-02	.2612-02	.2612-02	.9000	.5260-04	.6336-04	.3951-01	.3293	524.4
607	5.5650	26.038	2323.0	.1370-02	.1650-02	.1650-02	.9000	.3323-04	.4002-04	.2497-01	.1938	524.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U144)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
601	1.999	7.980	39.99	.1388-01	435.3	1304.	94.91	.4531-01	2.020	3811.	.1289-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
601	.3506-01	.2871-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
601	4.6920	24.576	2341.0	.8441-01	.1023	.1023	.9000	.2959-02	.3588-02	2.204	16.24	559.0
601	4.6920	24.913	2342.0	.1268	.1542	.1542	.9000	.4444-02	.5406-02	3.257	22.37	570.8
601	4.7220	25.475	2343.0	.1571	.1921	.1921	.9000	.5507-02	.6736-02	3.936	27.66	589.0
601	4.7590	26.038	2344.0	.1390	.1692	.1692	.9000	.4873-02	.5934-02	3.583	25.14	574.6
601	4.9020	24.576	2336.0	.5303-01	.6398-01	.6398-01	.9000	.1859-02	.2243-02	1.416	10.53	542.0
601	4.9020	24.913	2337.0	.1122	.1360	.1360	.9000	.3934-02	.4767-02	2.936	20.96	557.5
601	4.9020	25.575	2338.0	.1219	.1482	.1482	.9000	.4274-02	.5195-02	3.142	24.70	568.5
601	4.9020	26.138	2339.0	.1088	.1322	.1322	.9000	.3815-02	.4636-02	2.808	23.78	567.5
601	5.5650	24.576	2320.0	.7802-03	.9381-03	.9381-03	.9000	.2735-04	.3289-04	.2119-01	.1612	529.2
601	5.5650	24.913	2321.0	.4672-03	.5616-03	.5616-03	.9000	.1638-04	.1969-04	.1270-01	.1076	528.2
601	5.5650	25.476	2322.0	.2157-02	.2594-02	.2594-02	.9000	.7564-04	.9094-04	.5858-01	.4870	529.1
601	5.5650	26.038	2323.0	.1409-02	.1694-02	.1694-02	.9000	.4940-04	.5939-04	.3829-01	.2965	528.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U144)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 23.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
587	3.006	7.990	40.06	.1398-01	671.3	1323.	96.07	.6933-01	3.098	3839.	.1948-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
587	.4353-01	.2339-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
587	4.6920	24.576	2341.0	.1300	.1580	.1580	.9000	.5660-02	.6880-02	4.222	30.84	576.7
587	4.6920	24.913	2342.0	.1589	.1939	.1939	.9000	.6915-02	.8440-02	5.063	34.44	590.5
587	4.7220	25.475	2343.0	.2139	.2629	.2629	.9000	.9313-02	.1145-01	6.612	45.93	612.7
587	4.7590	26.038	2344.0	.1999	.2447	.2447	.9000	.8704-02	.1065-01	6.296	44.02	599.3
587	4.9020	24.576	2336.0	.7124-01	.8603-01	.8603-01	.9000	.3101-02	.3745-02	2.387	17.64	553.1
587	4.9020	24.913	2337.0	.1268	.1539	.1539	.9000	.5520-02	.6700-02	4.148	29.41	571.2
587	4.9020	25.575	2338.0	.1520	.1857	.1857	.9000	.6619-02	.8085-02	4.827	37.47	593.4
587	4.9020	26.138	2339.0	.1395	.1702	.1702	.9000	.6074-02	.7408-02	4.461	37.39	588.3
587	5.5650	24.576	2320.0	.1656-02	.1991-02	.1991-02	.9000	.7211-04	.8665-04	.5683-01	.4312	534.6
587	5.5650	24.913	2321.0	.6845-03	.8223-03	.8223-03	.9000	.2980-04	.3580-04	.2352-01	.1988	533.3
587	5.5650	25.476	2322.0	.2405-02	.2889-02	.2889-02	.9000	.1047-03	.1258-03	.8255-01	.6846	534.0
587	5.5650	26.038	2323.0	.1081-02	.1299-02	.1299-02	.9000	.4707-04	.5654-04	.3718-01	.2872	532.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U145)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
681	.5058	7.900	39.93	-.1034-01	101.2	1255.	93.06	.1125-01	.4913	3736.	.3252-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
681	.1718-01	.5684-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
681	4.6920	24.576	2341.0	.7399-01	.8967-01	.8967-01	.9000	.1271-02	.1540-02	.9122	6.798	537.0
681	4.6920	24.913	2342.0	.1684	.2051	.2051	.9000	.2893-02	.3524-02	2.029	14.06	553.4
681	4.7220	25.475	2343.0	.1817	.2210	.2210	.9000	.3121-02	.3797-02	2.202	15.78	549.2
681	4.7590	26.038	2344.0	.1424	.1728	.1728	.9000	.2447-02	.2969-02	1.746	12.56	541.2
681	4.9020	24.576	2336.0	.4961-01	.6001-01	.6001-01	.9000	.8521-03	.1031-02	.6166	4.609	531.1
681	4.9020	24.913	2337.0	.1120	.1358	.1358	.9000	.1924-02	.2333-02	1.377	9.920	539.0
681	4.9020	25.575	2338.0	.9531-01	.1154	.1154	.9000	.1637-02	.1983-02	1.179	9.423	534.7
681	4.9020	26.138	2339.0	.7343-01	.8889-01	.8889-01	.9000	.1261-02	.1527-02	.9100	7.840	533.3
681	5.5650	24.576	2320.0	.5327-03	.6435-03	.6435-03	.9000	.9150-05	.1105-04	.6667-02	.5081-01	526.1
681	5.5650	24.913	2321.0	.4363-03	.5270-03	.5270-03	.9000	.7494-05	.9052-05	.5462-02	.4635-01	525.8
681	5.5650	25.476	2322.0	.1258-02	.1519-02	.1519-02	.9000	.2161-04	.2610-04	.1575-01	.1311	525.9
681	5.5650	26.038	2323.0	.1534-02	.1853-02	.1853-02	.9000	.2635-04	.3183-04	.1920-01	.1488	526.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFI FUSELAGE AND ELEVON SPLIT LINE

(R4U145)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
667	X10 6 1.005	7.940	39.96	-6922-02	205.3	1261.	92.64	.2208-01	.9744	3746.	.6433-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
667	.2421-01	.4049-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
667	4.6920	24.576	2341.0	.7409-01	.8989-01	.8989-01	.9000	.1794-02	.2176-02	1.286	9.551	543.8
667	4.6920	24.913	2342.0	.1259	.1532	.1532	.9000	.3048-02	.3710-02	2.154	14.92	554.1
667	4.7220	25.475	2343.0	.1803	.2200	.2200	.9000	.4366-02	.5326-02	3.052	21.74	561.5
667	4.7590	26.038	2344.0	.1380	.1677	.1677	.9000	.3340-02	.4061-02	2.374	17.01	550.0
667	4.9020	24.576	2336.0	.4946-01	.5988-01	.5988-01	.9000	.1197-02	.1450-02	.8676	6.469	536.1
667	4.9020	24.913	2337.0	.1007	.1224	.1224	.9000	.2437-02	.2964-02	1.729	12.38	551.3
667	4.9020	25.575	2338.0	.9014-01	.1094	.1094	.9000	.2183-02	.2650-02	1.561	12.41	545.5
667	4.9020	26.138	2339.0	.7507-01	.9091-01	.9091-01	.9000	.1817-02	.2201-02	1.315	11.30	537.3
667	5.5650	24.576	2320.0	.9806-03	.1185-02	.1185-02	.9000	.2374-04	.2869-04	.1736-01	.1321	529.4
667	5.5650	24.913	2321.0	.4431-03	.5352-03	.5352-03	.9000	.1073-04	.1296-04	.7852-02	.6852-01	528.7
667	5.5650	25.476	2322.0	.1700-02	.2054-02	.2054-02	.9000	.4117-04	.4974-04	.3011-01	.2503	529.2
667	5.5650	26.038	2323.0	.1664-02	.2010-02	.2010-02	.9000	.4028-04	.4867-04	.2947-01	.2281	529.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1097

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U145)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
687	1.992	7.980	40.00	-.6947-02	434.9	1306.	95.05	.4527-01	2.018	3814.	.1285-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
687	.3505-01	.2875-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
687	4.6920	24.576	2341.0	.9826-01	.1191	.1191	.9000	.3445-02	.4176-02	2.568	18.91	560.2
687	4.6920	24.913	2342.0	.1493	.1817	.1817	.9000	.5234-02	.6370-02	3.834	26.30	573.2
687	4.7220	25.475	2343.0	.1902	.2326	.2326	.9000	.6667-02	.8154-02	4.773	33.52	589.8
687	4.7590	26.038	2344.0	.1531	.1862	.1862	.9000	.5368-02	.6528-02	3.946	27.98	570.6
687	4.9020	24.576	2336.0	.6023-01	.7273-01	.7273-01	.9000	.2111-02	.2550-02	1.603	11.89	546.3
687	4.9020	24.913	2337.0	.1421	.1727	.1727	.9000	.4981-02	.6054-02	3.668	26.03	569.2
687	4.9020	25.575	2338.0	.1396	.1699	.1699	.9000	.4894-02	.5956-02	3.582	28.08	573.7
687	4.9020	26.138	2339.0	.8665-01	.1047	.1047	.9000	.3037-02	.3672-02	2.295	19.61	550.1
687	5.5650	24.576	2320.0	.7571-03	.9100-03	.9100-03	.9000	.2654-04	.3190-04	.2063-01	.1570	528.4
687	5.5650	24.913	2321.0	.4710-03	.5660-03	.5660-03	.9000	.1651-04	.1984-04	.1284-01	.1089	527.7
687	5.5650	25.476	2322.0	.1604-02	.1929-02	.1929-02	.9000	.5624-04	.6760-04	.4371-01	.3635	528.6
687	5.5650	26.038	2323.0	.1349-02	.1622-02	.1622-02	.9000	.4730-04	.5685-04	.3677-01	.2847	528.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1098

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U145)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
701	2.998	7.990	40.05	-.6978-02	669.5	1323.	96.07	.6914-01	3.090	3839.	.1942-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
701	.4347-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
701	4.6920	24.576	2341.0	.1388	.1692	.1692	.9000	.6032-02	.7355-02	4.436	32.24	587.2
701	4.6920	24.913	2342.0	.1889	.2310	.2310	.9000	.8213-02	.1004-01	5.968	40.48	596.1
701	4.7220	25.475	2343.0	.2744	.3406	.3406	.9000	.1193-01	.1481-01	8.110	55.52	642.7
701	4.7590	26.038	2344.0	.1862	.2276	.2276	.9000	.8096-02	.9893-02	5.898	41.33	594.2
701	4.9020	24.576	2336.0	.8864-01	.1075	.1075	.9000	.3853-02	.4672-02	2.909	21.34	567.8
701	4.9020	24.913	2337.0	.1688	.2064	.2064	.9000	.7337-02	.8972-02	5.322	37.25	597.2
701	4.9020	25.575	2338.0	.1977	.2424	.2424	.9000	.8594-02	.1054-01	6.159	47.51	606.0
701	4.9020	26.138	2339.0	.1009	.1225	.1225	.9000	.4388-02	.5326-02	3.294	27.84	571.8
701	5.5650	24.576	2320.0	.9461-03	.1137-02	.1137-02	.9000	.4113-04	.4944-04	.3235-01	.2453	536.1
701	5.5650	24.913	2321.0	.5833-03	.7011-03	.7011-03	.9000	.2536-04	.3048-04	.1997-01	.1687	535.1
701	5.5650	25.476	2322.0	.1700-02	.2044-02	.2044-02	.9000	.7390-04	.8884-04	.5810-01	.4813	536.4
701	5.5650	26.038	2323.0	.1313-02	.1578-02	.1578-02	.9000	.5707-04	.6860-04	.4491-01	.3464	535.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U146)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
679	.5025	7.900	39.97	-.6923-02	100.5	1255.	93.06	.1117-01	.4881	3736.	.3241-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
679	.1712-01	.5703-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
679	4.6920	24.576	2341.0	.8039-01	.9747-01	.9747-01	.9000	.1376-02	.1669-02	.9859	7.342	538.4
679	4.6920	24.913	2342.0	.1669	.2030	.2030	.9000	.2858-02	.3476-02	2.016	14.00	549.2
679	4.7220	25.475	2343.0	.1794	.2183	.2183	.9000	.3072-02	.3737-02	2.165	15.51	549.9
679	4.7590	26.038	2344.0	.1422	.1726	.1726	.9000	.2434-02	.2954-02	1.734	12.47	542.4
679	4.9020	24.576	2336.0	.6219-01	.7530-01	.7530-01	.9000	.1065-02	.1289-02	.7676	5.730	533.8
679	4.9020	24.913	2337.0	.9911-01	.1201	.1201	.9000	.1697-02	.2056-02	1.219	8.790	536.6
679	4.9020	25.575	2338.0	.9236-01	.1119	.1119	.9000	.1581-02	.1916-02	1.137	9.081	535.9
679	4.9020	26.138	2339.0	.7172-01	.8686-01	.8686-01	.9000	.1228-02	.1487-02	.8843	7.614	534.6
679	5.5650	24.576	2320.0	.2040-03	.2465-03	.2465-03	.9000	.3493-05	.4220-05	.2545-02	.1939-01	526.2
679	5.5650	25.476	2322.0	.6235-03	.7532-03	.7532-03	.9000	.1067-04	.1290-04	.7776-02	.6475-01	526.2
679	5.5650	26.038	2323.0	.1160-02	.1402-02	.1402-02	.9000	.1986-04	.2400-04	.1447-01	.1122	526.3



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1100

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U146)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
665	1.003	7.940	39.97	- .1732-01	205.8	1265.	92.93	.2213-01	.9768	3752.	.6429-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
665	.2425-01	.4052-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
665	4.6920	24.576	2341.0	.7278-01	.8844-01	.8844-01	.9000	.1765-02	.2145-02	1.261	9.334	550.4
665	4.6920	24.913	2342.0	.1258	.1533	.1533	.9000	.3050-02	.3718-02	2.147	14.83	560.6
665	4.7220	25.475	2343.0	.1742	.2129	.2129	.9000	.4225-02	.5164-02	2.938	20.85	569.3
665	4.7590	26.038	2344.0	.1355	.1650	.1650	.9000	.3286-02	.4003-02	2.318	16.53	559.1
665	4.9020	24.576	2336.0	.5026-01	.6092-01	.6092-01	.9000	.1219-02	.1478-02	.8808	6.548	542.1
665	4.9020	24.913	2337.0	.1005	.1224	.1224	.9000	.2438-02	.2970-02	1.723	12.30	558.0
665	4.9020	25.575	2338.0	.8736-01	.1062	.1062	.9000	.2119-02	.2577-02	1.509	11.95	552.6
665	4.9020	26.138	2339.0	.7426-01	.9011-01	.9011-01	.9000	.1801-02	.2186-02	1.295	11.09	545.7
665	5.5650	24.576	2320.0	.6163-03	.7448-03	.7448-03	.9000	.1495-04	.1807-04	.1095-01	.8323-01	531.9
665	5.5650	24.913	2321.0	.5086-03	.6146-03	.6146-03	.9000	.1234-04	.1491-04	.9043-02	.7651-01	531.6
665	5.5650	25.476	2322.0	.1581-02	.1911-02	.1911-02	.9000	.3835-04	.4636-04	.2809-01	.2332	532.3
665	5.5650	26.038	2323.0	.1444-02	.1745-02	.1745-02	.9000	.3503-04	.4233-04	.2566-01	.1983	532.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1101

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U146)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
689	1.996	7.980	39.99	-1.1041-01	434.3	1303.	94.84	.4521-01	2.015	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
689	.3502-01	.2873-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZC MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
689	4.6920	24.576	2341.0	.9760-01	.1184	.1184	.9000	.3418-02	.4147-02	2.532	18.64	561.7
689	4.6920	24.913	2342.0	.1572	.1914	.1914	.9000	.5503-02	.6702-02	4.007	27.47	574.5
689	4.7220	25.475	2343.0	.1896	.2321	.2321	.9000	.6638-02	.8127-02	4.721	33.13	591.5
689	4.7590	26.038	2344.0	.1568	.1909	.1909	.9000	.5490-02	.6684-02	4.003	28.35	573.5
689	4.9020	24.576	2336.0	.5964-01	.7207-01	.7207-01	.9000	.2088-02	.2524-02	1.578	11.70	547.3
689	4.9020	24.913	2337.0	.1430	.1740	.1740	.9000	.5009-02	.6092-02	3.668	26.01	570.3
689	4.9020	25.575	2338.0	.1434	.1748	.1748	.9000	.5023-02	.6120-02	3.649	28.57	576.2
689	4.9020	26.138	2339.0	.8652-01	.1047	.1047	.9000	.3029-02	.3666-02	2.272	19.38	552.9
689	5.5650	24.576	2320.0	.7092-03	.8526-03	.8526-03	.9000	.2483-04	.2986-04	.1923-01	.1464	528.4
689	5.5650	24.913	2321.0	.4981-03	.5988-03	.5988-03	.9000	.1744-04	.2097-04	.1351-01	.1145	528.1
689	5.5650	25.476	2322.0	.1679-02	.2019-02	.2019-02	.9000	.5880-04	.7071-04	.4549-01	.3782	529.0
689	5.5650	26.038	2323.0	.1345-02	.1617-02	.1617-02	.9000	.4709-04	.5661-04	.3644-01	.2822	528.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1102

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U146)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
699	2.999	7.990	40.05	-.6984-02	670.4	1324.	96.14	.6923-01	3.094	3841.	.1944-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
699	.4351-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
699	4.6920	24.576	2341.0	.1389	.1693	.1693	.9000	.6044-02	.7365-02	4.460	32.44	585.7
699	4.6920	24.913	2342.0	.1881	.2299	.2299	.9000	.8186-02	.1000-01	5.964	40.47	595.1
699	4.7220	25.475	2343.0	.2738	.3397	.3397	.9000	.1191-01	.1478-01	8.120	55.61	641.9
699	4.7590	26.038	2344.0	.1857	.2268	.2268	.9000	.8080-02	.9869-02	5.901	41.38	593.4
699	4.9020	24.576	2336.0	.8922-01	.1081	.1081	.9000	.3882-02	.4704-02	2.938	21.57	566.8
699	4.9020	24.913	2337.0	.1683	.2058	.2058	.9000	.7324-02	.8953-02	5.327	37.30	596.3
699	4.9020	25.575	2338.0	.1982	.2430	.2430	.9000	.8622-02	.1057-01	6.193	47.80	605.4
699	4.9020	26.138	2339.0	.1018	.1235	.1235	.9000	.4428-02	.5373-02	3.333	28.17	571.0
699	5.5650	24.576	2320.0	.1006-02	.1209-02	.1209-02	.9000	.4376-04	.5259-04	.3451-01	.2618	535.1
699	5.5650	24.913	2321.0	.5511-03	.6621-03	.6621-03	.9000	.2398-04	.2881-04	.1893-01	.1599	534.2
699	5.5650	25.476	2322.0	.1877-02	.2255-02	.2255-02	.9000	.8164-04	.9812-04	.6435-01	.5332	535.5
699	5.5650	26.038	2323.0	.1476-02	.1774-02	.1774-02	.9000	.6423-04	.7718-04	.5066-01	.3910	534.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1103

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U147)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
683	.5030	7.900	39.93	-.6896-02	100.5	1254.	92.99	.1117-01	.4880	3735.	.3242-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
683	.1712-01	.5700-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
683	4.6920	24.576	2341.0	.7347-01	.8907-01	.8907-01	.9000	.1258-02	.1525-02	.9004	6.707	537.8
683	4.6920	24.913	2342.0	.1680	.2049	.2049	.9000	.2876-02	.3507-02	2.005	13.87	556.6
683	4.7220	25.475	2343.0	.1775	.2161	.2161	.9000	.3039-02	.3698-02	2.136	15.30	550.8
683	4.7590	26.038	2344.0	.1364	.1657	.1657	.9000	.2335-02	.2836-02	1.659	11.92	543.3
683	4.9020	24.576	2336.0	.5038-01	.6096-01	.6096-01	.9000	.8623-03	.1044-02	.6227	4.653	531.6
683	4.9020	24.913	2337.0	.1138	.1381	.1381	.9000	.1949-02	.2365-02	1.388	9.993	541.1
683	4.9020	25.575	2338.0	.9512-01	.1152	.1152	.9000	.1628-02	.1973-02	1.169	9.337	535.9
683	4.9020	26.138	2339.0	.7414-01	.8981-01	.8981-01	.9000	.1269-02	.1537-02	.9122	7.852	534.9
683	5.5650	24.576	2320.0	.5544-03	.6696-03	.6696-03	.9000	.9490-05	.1146-04	.6913-02	.5271-01	525.2
683	5.5650	24.913	2321.0	.2865-03	.3461-03	.3461-03	.9000	.4904-05	.5924-05	.3572-02	.3032-01	525.2
683	5.5650	25.476	2322.0	.1039-02	.1255-02	.1255-02	.9000	.1778-04	.2148-04	.1295-01	.1079	525.2
683	5.5650	26.038	2323.0	.1234-02	.1490-02	.1490-02	.9000	.2112-04	.2551-04	.1538-01	.1193	525.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1104

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U147)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
669	1.010	7.940	39.95	-1.1037-01	205.9	1259.	92.49	.2215-01	.9773	3743.	.6462-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
669	.2424-01	.4040-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
669	4.6920	24.576	2341.0	.7391-01	.8971-01	.8971-01	.9000	.1792-02	.2175-02	1.291	9.513	543.8
669	4.6920	24.913	2342.0	.1253	.1526	.1526	.9000	.3038-02	.3698-02	2.140	14.82	554.2
669	4.7220	25.475	2343.0	.1789	.2184	.2184	.9000	.4337-02	.5293-02	3.023	21.53	561.6
669	4.7590	26.038	2344.0	.1362	.1656	.1656	.9000	.3300-02	.4014-02	2.337	16.74	550.5
669	4.9020	24.576	2336.0	.4926-01	.5965-01	.5965-01	.9000	.1194-02	.1446-02	.8625	6.430	536.3
669	4.9020	24.913	2337.0	.1018	.1238	.1238	.9000	.2467-02	.3001-02	1.745	12.49	551.4
669	4.9020	25.575	2338.0	.8946-01	.1086	.1086	.9000	.2169-02	.2633-02	1.546	12.30	545.5
669	4.9020	26.138	2339.0	.7484-01	.9068-01	.9068-01	.9000	.1814-02	.2198-02	1.307	11.23	538.1
669	5.5650	24.576	2320.0	.1057-02	.1277-02	.1277-02	.9000	.2562-04	.3095-04	.1870-01	.1423	528.8
669	5.5650	24.913	2321.0	.4511-03	.5450-03	.5450-03	.9000	.1093-04	.1321-04	.7983-02	.6764-01	528.5
669	5.5650	25.476	2322.0	.1900-02	.2296-02	.2296-02	.9000	.4606-04	.5566-04	.3364-01	.2797	528.5
669	5.5650	26.038	2323.0	.1676-02	.2026-02	.2026-02	.9000	.4064-04	.4910-04	.2968-01	.2299	528.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U147)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 8.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
685	2.023	7.980	39.98	-.6930-02	434.5	1292.	94.03	.4523-01	2.016	3794.	.1298-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
685	.3497-01	.2858-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
685	4.6920	24.576	2341.0	.1209	.1468	.1468	.9000	.4227-02	.5135-02	3.089	22.75	560.8
685	4.6920	24.913	2342.0	.4212	.5265	.5265	.9000	.1473-01	.1841-01	9.512	62.98	645.9
685	4.7220	25.475	2343.0	.2174	.2665	.2665	.9000	.7604-02	.9320-02	5.334	37.46	590.2
685	4.7590	26.038	2344.0	.1586	.1931	.1931	.9000	.5547-02	.6754-02	4.010	28.46	568.8
685	4.9020	24.576	2336.0	.1062	.1286	.1286	.9000	.3713-02	.4499-02	2.748	20.33	551.6
685	4.9020	24.913	2337.0	.3306	.4063	.4063	.9000	.1156-01	.1421-01	8.021	56.11	598.0
685	4.9020	25.575	2338.0	.1445	.1758	.1758	.9000	.5052-02	.6147-02	3.664	28.83	566.4
685	4.9020	26.138	2339.0	.8741-01	.1059	.1059	.9000	.3057-02	.3702-02	2.267	19.36	550.2
685	5.5650	24.576	2320.0	.1031-02	.1240-02	.1240-02	.9000	.3606-04	.4338-04	.2761-01	.2104	526.0
685	5.5650	24.913	2321.0	.4172-03	.5018-03	.5018-03	.9000	.1459-04	.1755-04	.1118-01	.9485-01	525.6
685	5.5650	25.476	2322.0	.1726-02	.2077-02	.2077-02	.9000	.6037-04	.7263-04	.4617-01	.3843	526.8
685	5.5650	26.038	2323.0	.1401-02	.1686-02	.1686-02	.9000	.4901-04	.5896-04	.3750-01	.2907	526.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U147)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BOFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
703	2.990	7.990	40.01	-.6955-02	668.4	1324.	96.14	.6903-01	3.085	3841.	.1938-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
703	.4344-01	.2345-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
703	4.6920	24.576	2341.0	.1387	.1690	.1690	.9000	.6027-02	.7342-02	4.454	32.41	584.6
703	4.6920	24.913	2342.0	.1846	.2256	.2256	.9000	.8021-02	.9799-02	5.852	39.74	594.1
703	4.7220	25.475	2343.0	.2735	.3392	.3392	.9000	.1188-01	.1474-01	8.117	55.62	640.5
703	4.7590	26.038	2344.0	.1839	.2245	.2245	.9000	.7990-02	.9752-02	5.852	41.07	591.3
703	4.9020	24.576	2336.0	.8918-01	.1080	.1080	.9000	.3874-02	.4693-02	2.937	21.58	565.5
703	4.9020	24.913	2337.0	.1674	.2046	.2046	.9000	.7274-02	.8890-02	5.299	37.12	595.3
703	4.9020	25.575	2338.0	.1977	.2422	.2422	.9000	.8587-02	.1052-01	6.182	47.75	603.7
703	4.9020	26.138	2339.0	.1019	.1236	.1236	.9000	.4428-02	.5369-02	3.344	28.31	568.4
703	5.5650	24.576	2320.0	.1177-02	.1415-02	.1415-02	.9000	.5114-04	.6145-04	.4035-01	.3061	534.8
703	5.5650	24.913	2321.0	.5727-03	.6880-03	.6880-03	.9000	.2488-04	.2989-04	.1965-01	.1660	534.0
703	5.5650	25.476	2322.0	.2044-02	.2456-02	.2456-02	.9000	.8881-04	.1067-03	.7008-01	.5810	534.6
703	5.5650	26.038	2323.0	.1613-02	.1938-02	.1938-02	.9000	.7008-04	.8419-04	.5534-01	.4273	534.0

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1107

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U148)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
675	.5021	7.900	39.94	-.6904-02	100.2	1253	92.91	.1114-01	.4866	3733.	.3235-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
675	.1709-01	.5706-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
675	4.6920	24.576	2341.0	.6276-01	.7608-01	.7608-01	.9000	.1072-02	.1300-02	.7673	5.718	537.2
675	4.6920	24.913	2342.0	.1190	.1445	.1445	.9000	.2033-02	.2470-02	1.440	10.03	544.2
675	4.7220	25.475	2343.0	.1755	.2136	.2136	.9000	.2999-02	.3651-02	2.104	15.06	551.3
675	4.7590	26.038	2344.0	.1094	.1329	.1329	.9000	.1870-02	.2271-02	1.328	9.555	542.4
675	4.9020	24.576	2336.0	.3829-01	.4633-01	.4633-01	.9000	.6543-03	.7917-03	.4721	3.529	531.2
675	4.9020	24.913	2337.0	.7225-01	.8761-01	.8761-01	.9000	.1235-02	.1497-02	.8819	6.356	538.4
675	4.9020	25.575	2338.0	.8163-01	.9900-01	.9900-01	.9000	.1395-02	.1692-02	.9960	7.946	538.7
675	4.9020	26.138	2339.0	.6215-01	.7531-01	.7531-01	.9000	.1062-02	.1287-02	.7616	6.554	535.6
675	5.5650	25.476	2322.0	.5548-03	.6703-03	.6703-03	.9000	.9482-05	.1145-04	.6896-02	.5744-01	525.4
675	5.5650	26.038	2323.0	.5573-03	.6733-03	.6733-03	.9000	.9524-05	.1151-04	.6927-02	.5372-01	525.4



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1108

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U148)

AFT FUSE.ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
673	1.003	7.940	39.97	-6929-02	205.6	1264.	92.86	.2211-01	.9759	3751.	.6427-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
673	.2424-01	.4052-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
673	4.6920	24.576	2341.0	.7250-01	.8792-01	.8792-01	.9000	.1757-02	.2131-02	1.267	9.411	543.0
673	4.6920	24.913	2342.0	.1240	.1509	.1509	.9000	.3006-02	.3657-02	2.135	14.79	553.5
673	4.7220	25.475	2343.0	.1760	.2146	.2146	.9000	.4265-02	.5201-02	2.996	21.35	561.3
673	4.7590	26.038	2344.0	.1295	.1574	.1574	.9000	.3139-02	.3815-02	2.240	16.05	550.2
673	4.9020	24.576	2336.0	.4889-01	.5915-01	.5915-01	.9000	.1185-02	.1434-02	.8635	6.441	535.1
673	4.9020	24.913	2337.0	.9955-01	.1210	.1210	.9000	.2413-02	.2933-02	1.720	12.32	550.7
673	4.9020	25.575	2338.0	.8761-01	.1063	.1063	.9000	.2124-02	.2577-02	1.526	12.14	545.0
673	4.9020	26.138	2339.0	.7279-01	.8813-01	.8813-01	.9000	.1764-02	.2136-02	1.281	11.01	537.5
673	5.5650	24.576	2320.0	.7283-03	.8789-03	.8789-03	.9000	.1765-04	.2130-04	.1302-01	.9923-01	526.2
673	5.5650	24.913	2321.0	.1808-03	.2182-03	.2182-03	.9000	.4382-05	.5288-05	.3232-02	.2742-01	526.1
673	5.5650	25.475	2322.0	.1453-02	.1754-02	.1754-02	.9000	.3522-04	.4250-04	.2597-01	.2163	526.2
673	5.5650	26.038	2323.0	.1216-02	.1468-02	.1468-02	.9000	.2948-04	.3557-04	.2174-01	.1686	526.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1109

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U148)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
691	1.993	7.980	39.99	-.6942-02	434.6	1305.	94.98	.4524-01	2.017	3813.	.1286-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
691	.3504-01	.2875-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
691	4.6920	24.576	2341.0	.9756-01	.1184	.1184	.9000	.3418-02	.4149-02	2.532	18.61	564.1
691	4.6920	24.913	2342.0	.1512	.1843	.1843	.9000	.5299-02	.6457-02	3.856	26.40	577.1
691	4.7220	25.475	2343.0	.1919	.2351	.2351	.9000	.6725-02	.8237-02	4.780	33.51	593.9
691	4.7590	26.038	2344.0	.1558	.1898	.1898	.9000	.5460-02	.6650-02	3.980	28.15	575.7
691	4.9020	24.576	2336.0	.5840-01	.7061-01	.7061-01	.9000	.2046-02	.2474-02	1.544	11.44	549.9
691	4.9020	24.913	2337.0	.1430	.1741	.1741	.9000	.5012-02	.6099-02	3.668	25.98	572.8
691	4.9020	25.575	2338.0	.1412	.1721	.1721	.9000	.4947-02	.6030-02	3.594	28.11	578.2
691	4.9020	26.138	2339.0	.8585-01	.1039	.1039	.9000	.3008-02	.3642-02	2.254	19.20	555.3
691	5.5650	24.576	2320.0	.8576-03	.1031-02	.1031-02	.9000	.3005-04	.3614-04	.2326-01	.1768	530.7
691	5.5650	24.913	2321.0	.6173-03	.7424-03	.7424-03	.9000	.2163-04	.2601-04	.1675-01	.1418	530.3
691	5.5650	25.476	2322.0	.1760-02	.2117-02	.2117-02	.9000	.6166-04	.7417-04	.4770-01	.3961	531.1
691	5.5650	26.038	2323.0	.1538-02	.1850-02	.1850-02	.9000	.5390-04	.6483-04	.4172-01	.3227	530.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1110

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U148)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
697	2.999	7.990	40.00	-.6947-02	668.9	1322.	96.00	.6908-01	3.087	3838.	.1942-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
697	.4345-01	.2342-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
697	4.6920	24.576	2341.0	.1379	.1680	.1680	.9000	.5993-02	.7298-02	4.427	32.24	582.9
697	4.6920	24.913	2342.0	.1909	.2331	.2331	.9000	.8293-02	.1013-01	6.049	41.11	592.3
697	4.7220	25.475	2343.0	.2747	.3407	.3407	.9000	.1194-01	.1480-01	8.154	55.92	638.6
697	4.7590	26.038	2344.0	.1862	.2272	.2272	.9000	.8089-02	.9872-02	5.921	41.59	589.7
697	4.9020	24.576	2336.0	.8720-01	.1056	.1056	.9000	.3789-02	.4589-02	2.873	21.12	563.5
697	4.9020	24.913	2337.0	.1692	.2067	.2067	.9000	.7351-02	.8981-02	5.353	37.54	593.4
697	4.9020	25.575	2338.0	.1986	.2432	.2432	.9000	.8626-02	.1057-01	6.212	48.03	601.6
697	4.9020	26.138	2339.0	.1017	.1233	.1233	.9000	.4419-02	.5358-02	3.334	28.24	567.2
697	5.5650	24.576	2320.0	.1103-02	.1325-02	.1325-02	.9000	.4791-04	.5757-04	.3776-01	.2867	533.6
697	5.5650	24.913	2321.0	.5226-03	.6278-03	.6278-03	.9000	.2270-04	.2728-04	.1789-01	.1512	533.5
697	5.5650	25.476	2322.0	.1960-02	.2355-02	.2355-02	.9000	.8517-04	.1023-03	.6713-01	.5568	533.6
697	5.5650	26.038	2323.0	.1605-02	.1928-02	.1928-02	.9000	.6972-04	.8376-04	.5498-01	.4247	533.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1111

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U149)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BOFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
677	.5060	7.900	39.96	-.6920-02	101.1	1254.	92.99	.1124-01	.4909	3735.	.3262-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
677	.1717-01	.5684-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
677	4.6920	24.576	2341.0	.8380-01	.1016	.1016	.9000	.1439-02	.1745-02	1.029	7.662	538.6
677	4.6920	24.913	2342.0	.1488	.1808	.1808	.9000	.2555-02	.3105-02	1.809	12.58	545.7
677	4.7220	25.475	2343.0	.1651	.2009	.2009	.9000	.2835-02	.3449-02	1.996	14.30	549.7
677	4.7590	26.038	2344.0	.4943-01	.5988-01	.5988-01	.9000	.8486-03	.1028-02	.6095	4.400	535.3
677	4.9020	24.576	2336.0	.6641-01	.8042-01	.8042-01	.9000	.1140-02	.1381-02	.8203	6.122	534.2
677	4.9020	24.913	2337.0	.8375-01	.1014	.1014	.9000	.1438-02	.1741-02	1.035	7.477	533.8
677	4.9020	25.575	2338.0	.9945-01	.1205	.1205	.9000	.1707-02	.2069-02	1.224	9.775	536.8
677	4.9020	26.138	2339.0	.4211-01	.5096-01	.5096-01	.9000	.7230-03	.8750-03	.5218	4.498	532.0
677	5.5650	24.576	2320.0	.5840-03	.7054-03	.7054-03	.9000	.1003-04	.1211-04	.7301-02	.5566-01	525.5
677	5.5650	25.476	2322.0	.1122-02	.1355-02	.1355-02	.9000	.1926-04	.2327-04	.1403-01	.1169	525.3
677	5.5650	26.038	2323.0	.1363-02	.1647-02	.1647-02	.9000	.2340-04	.2827-04	.1704-01	.1322	525.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U149)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 23.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
671	1.007	7.940	39.96	-1.038-01	204.7	1257.	92.34	.2202-01	.9716	3740.	.6435-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
671	.2416-01	.4047-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
671	4.6920	24.576	2341.0	.7365-01	.8942-01	.8942-01	.9000	.1779-02	.2161-02	1.268	9.415	544.2
671	4.6920	24.913	2342.0	.1264	.1539	.1539	.9000	.3054-02	.3719-02	2.144	14.85	554.5
671	4.7220	25.475	2343.0	.1752	.2138	.2138	.9000	.4232-02	.5167-02	2.940	20.94	562.1
671	4.7590	26.038	2344.0	.9076-01	.1103	.1103	.9000	.2193-02	.2665-02	1.556	11.17	547.0
671	4.9020	24.576	2336.0	.4932-01	.5975-01	.5975-01	.9000	.1192-02	.1444-02	.8583	6.398	536.5
671	4.9020	24.913	2337.0	.1021	.1243	.1243	.9000	.2468-02	.3003-02	1.740	12.46	551.7
671	4.9020	25.575	2338.0	.8937-01	.1086	.1086	.9000	.2159-02	.2623-02	1.534	12.19	546.4
671	4.9020	26.138	2339.0	.6129-01	.7429-01	.7429-01	.9000	.1481-02	.1795-02	1.064	9.142	538.3
671	5.5650	24.576	2320.0	.9717-03	.1174-02	.1174-02	.9000	.2348-04	.2837-04	.1711-01	.1303	527.7
671	5.5650	24.913	2321.0	.3502-03	.4231-03	.4231-03	.9000	.8461-05	.1022-04	.6167-02	.5228-01	527.8
671	5.5650	25.476	2322.0	.1689-02	.2040-02	.2040-02	.9000	.4080-04	.4930-04	.2974-01	.2474	527.8
671	5.5650	26.038	2323.0	.1622-02	.1960-02	.1960-02	.9000	.3919-04	.4735-04	.2857-01	.2213	527.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U149)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
693	2.000	7.980	40.00	-1.042-01	434.5	1302.	94.76	.4523-01	2.016	3808.	.1288-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
693	.3502-01	.2871-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
693	4.6920	24.576	2341.0	.9302-01	.1129	.1129	.9000	.3258-02	.3955-02	2.404	17.68	563.6
693	4.6920	24.913	2342.0	.1560	.1901	.1901	.9000	.5464-02	.6657-02	3.966	27.18	575.7
693	4.7220	25.475	2343.0	.1883	.2306	.2306	.9000	.6594-02	.8076-02	4.677	32.81	592.4
693	4.7590	26.038	2344.0	.1556	.1894	.1894	.9000	.5450-02	.6633-02	3.977	28.19	571.9
693	4.9020	24.576	2336.0	.6038-01	.7298-01	.7298-01	.9000	.2114-02	.2556-02	1.594	11.81	547.9
693	4.9020	24.913	2337.0	.1408	.1713	.1713	.9000	.4931-02	.6001-02	3.602	25.54	571.2
693	4.9020	25.575	2338.0	.1402	.1708	.1708	.9000	.4910-02	.5983-02	3.562	27.89	576.1
693	4.9020	26.138	2339.0	.8727-01	.1056	.1056	.9000	.3056-02	.3698-02	2.292	19.57	551.6
693	5.5650	24.576	2320.0	.6475-03	.7790-03	.7790-03	.9000	.2267-04	.2728-04	.1748-01	.1329	530.8
693	5.5650	24.913	2321.0	.3920-03	.4715-03	.4715-03	.9000	.1373-04	.1651-04	.1060-01	.8973-01	529.8
693	5.5650	25.476	2322.0	.1527-02	.1838-02	.1838-02	.9000	.5349-04	.6435-04	.4124-01	.3426	530.7
693	5.5650	26.038	2323.0	.1246-02	.1500-02	.1500-02	.9000	.4365-04	.5251-04	.3367-01	.2605	530.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U149)

AFT FUSE.ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 23.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
695	3.030	7.990	40.02	-6963-02	669.0	1313.	95.34	.6909-01	3.087	3825.	.1956-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
695	.4340-01	.2332-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
695	4.6920	24.576	2341.0	.1407	.1714	.1714	.9000	.6105-02	.7439-02	4.466	32.56	581.0
695	4.6920	24.913	2342.0	.1932	.2361	.2361	.9000	.8384-02	.1025-01	6.057	41.21	590.2
695	4.7220	25.475	2343.0	.2766	.3432	.3432	.9000	.1200-01	.1490-01	8.113	55.69	636.8
695	4.7590	26.038	2344.0	.1864	.2277	.2277	.9000	.8091-02	.9883-02	5.856	41.15	588.8
695	4.9020	24.576	2336.0	.8758-01	.1061	.1061	.9000	.3801-02	.4604-02	2.861	21.07	560.0
695	4.9020	24.913	2337.0	.1707	.2067	.2067	.9000	.7409-02	.9057-02	5.344	37.51	591.3
695	4.9020	25.575	2338.0	.1997	.2448	.2448	.9000	.8666-02	.1062-01	6.174	47.77	600.2
695	4.9020	26.138	2339.0	.1025	.1244	.1244	.9000	.4450-02	.5400-02	3.322	28.15	566.1
695	5.5650	24.576	2320.0	.8615-03	.1035-02	.1035-02	.9000	.3739-04	.4492-04	.2928-01	.2228	529.4
695	5.5650	24.913	2321.0	.6379-03	.7663-03	.7663-03	.9000	.2768-04	.3326-04	.2168-01	.1836	529.5
695	5.5650	25.476	2322.0	.1985-02	.2385-02	.2385-02	.9000	.8613-04	.1035-03	.6738-01	.5598	530.4
695	5.5650	26.038	2323.0	.1579-02	.1896-02	.1896-02	.9000	.6851-04	.8231-04	.5364-01	.4150	529.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U150)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
767	.5029	7.900	39.98	-3.3466-02	100.1	1251.	92.77	.1113-01	.4863	3730.	.3238-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
767	.1708-01	.5703-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
767	4.6920	24.576	2341.0	.7317-01	.8884-01	.8884-01	.9000	.1250-02	.1517-02	.8858	6.586	541.8
767	4.6920	24.913	2342.0	.1537	.1870	.1870	.9000	.2624-02	.3194-02	1.840	12.78	549.5
767	4.7220	25.475	2343.0	.1733	.2112	.2112	.9000	.2960-02	.3607-02	2.064	14.76	553.4
767	4.7590	26.038	2344.0	.1195	.1451	.1451	.9000	.2041-02	.2478-02	1.446	10.40	542.1
767	4.9020	24.576	2336.0	.5140-01	.6229-01	.6229-01	.9000	.8778-03	.1064-02	.6278	4.682	535.5
767	4.9020	24.913	2337.0	.1054	.1280	.1280	.9000	.1800-02	.2187-02	1.273	9.149	543.5
767	4.9020	25.575	2338.0	.8146-01	.9884-01	.9884-01	.9000	.1391-02	.1688-02	.9896	7.893	539.4
767	4.9020	26.138	2339.0	.5378-01	.6516-01	.6516-01	.9000	.9185-03	.1113-02	.6576	5.661	534.8
767	5.5650	24.576	2320.0	.3778-03	.4568-03	.4568-03	.9000	.6452-05	.7802-05	.4663-02	.3551-01	527.9
767	5.5650	24.913	2321.0	.2261-03	.2733-03	.2733-03	.9000	.3861-05	.4669-05	.2791-02	.2365-01	527.9
767	5.5650	25.476	2322.0	.1043-02	.1261-02	.1261-02	.9000	.1781-04	.2153-04	.1287-01	.1071	528.0
767	5.5650	26.038	2323.0	.6575-03	.7951-03	.7951-03	.9000	.1123-04	.1358-04	.8121-02	.6291-01	527.6



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U150)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
757	1.043	7.940	39.99	-4654-06	214.1	1265.	92.93	.2302-01	1.016	3752.	.6687-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
757	.2474-01	.3973-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
757	4.6920	24.576	2341.0	.7881-01	.9577-01	.9577-01	.9000	.1950-02	.2369-02	1.392	10.31	550.4
757	4.6920	24.913	2342.0	.1462	.1783	.1783	.9000	.3617-02	.4411-02	2.540	17.53	562.2
757	4.7220	25.475	2343.0	.1912	.2340	.2340	.9000	.4730-02	.5789-02	3.269	23.15	573.5
757	4.7590	26.038	2344.0	.1221	.1484	.1484	.9000	.3019-02	.3671-02	2.150	15.39	552.4
757	4.9020	24.576	2336.0	.5549-01	.6728-01	.6728-01	.9000	.1373-02	.1664-02	.9903	7.358	543.1
757	4.9020	24.913	2337.0	.1221	.1487	.1487	.9000	.3020-02	.3678-02	2.134	15.23	558.1
757	4.9020	25.575	2338.0	.1135	.1380	.1380	.9000	.2806-02	.3413-02	1.998	15.83	562.8
757	4.9020	26.138	2339.0	.5674-01	.6874-01	.6874-01	.9000	.1404-02	.1700-02	1.017	8.735	539.9
757	5.5650	24.576	2320.0	.5052-03	.6101-03	.6101-03	.9000	.1250-04	.1509-04	.9189-02	.6991-01	529.4
757	5.5650	24.913	2321.0	.2478-03	.2993-03	.2993-03	.9000	.6130-05	.7403-05	.4507-02	.3817-01	529.4
757	5.5650	25.476	2322.0	.1107-02	.1338-02	.1338-02	.9000	.2739-04	.3309-04	.2013-01	.1673	529.7
757	5.5650	26.038	2323.0	.5187-03	.6264-03	.6264-03	.9000	.1283-04	.1550-04	.9434-02	.7302-01	529.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1117

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U150)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
755	1.966	7.980	40.06	-4684-06	429.7	1307.	95.13	.4474-01	1.994	3815.	.1269-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
755	.3485-01	.2894-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
755	4.6920	24.576	2341.0	.9956-01	.1208	.1208	.9000	.3470-02	.4211-02	2.577	18.94	564.0
755	4.6920	24.913	2342.0	.1600	.1947	.1947	.9000	.5576-02	.6787-02	4.082	27.99	574.6
755	4.7220	25.475	2343.0	.2446	.3015	.3015	.9000	.8525-02	.1051-01	5.902	40.96	614.3
755	4.7590	26.038	2344.0	.1424	.1729	.1729	.9000	.4962-02	.6026-02	3.671	26.08	566.9
755	4.9020	24.576	2336.0	.7500-01	.9073-01	.9073-01	.9000	.2614-02	.3162-02	1.969	14.55	553.3
755	4.9020	24.913	2337.0	.1681	.2053	.2053	.9000	.5860-02	.7154-02	4.235	29.83	584.0
755	4.9020	25.575	2338.0	.1498	.1821	.1821	.9000	.5221-02	.6346-02	3.848	30.23	569.6
755	4.9020	26.138	2339.0	.6761-01	.8169-01	.8169-01	.9000	.2356-02	.2847-02	1.787	15.28	548.3
755	5.5650	24.576	2320.0	.1057-02	.1271-02	.1271-02	.9000	.3685-04	.4431-04	.2862-01	.2177	530.2
755	5.5650	24.913	2321.0	.5038-03	.6056-03	.6056-03	.9000	.1756-04	.2111-04	.1364-01	.1155	529.7
755	5.5650	25.476	2322.0	.1633-02	.1964-02	.1964-02	.9000	.5692-04	.6844-04	.4418-01	.3670	530.6
755	5.5650	26.038	2323.0	.1318-02	.1584-02	.1584-02	.9000	.4593-04	.5522-04	.3567-01	.2760	530.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1118

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U150)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
745	3.041	7.990	40.06	-.3495-02	670.5	1312.	95.27	.6924-01	3.094	3823.	.1962-02	.7665-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
745	.4344-01	.2328-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
745	4.6920	24.576	2341.0	.1484	.1812	.1812	.9000	.6449-02	.7870-02	4.685	34.08	585.2
745	4.6920	24.913	2342.0	.2483	.3047	.3047	.9000	.1079-01	.324-01	7.641	51.65	603.3
745	4.7220	25.475	2343.0	.2986	.3721	.3721	.9000	.1297-01	.1616-01	8.610	58.79	647.8
745	4.7590	26.038	2344.0	.1527	.1860	.1860	.9000	.6632-02	.8081-02	4.849	34.22	580.5
745	4.9020	24.576	2336.0	.1267	.1542	.1542	.9000	.5504-02	.6700-02	4.044	29.54	576.9
745	4.9020	24.913	2337.0	.2855	.3523	.3523	.9000	.1240-01	.1531-01	8.581	59.40	619.8
745	4.9020	25.575	2338.0	.1709	.2084	.2084	.9000	.7424-02	.9055-02	5.406	42.17	583.5
745	4.9020	26.138	2339.0	.7272-01	.8796-01	.8796-01	.9000	.3159-02	.3821-02	2.391	20.38	554.8
745	5.5650	24.576	2320.0	.1299-02	.1562-02	.1562-02	.9000	.5641-04	.6785-04	.4390-01	.3333	533.5
745	5.5650	24.913	2321.0	.4626-03	.5562-03	.5562-03	.9000	.2010-04	.2416-04	.1566-01	.1324	532.4
745	5.5650	25.476	2322.0	.2192-02	.2637-02	.2637-02	.9000	.9522-04	.1146-03	.7399-01	.6134	534.7
745	5.5650	26.038	2323.0	.1507-02	.1812-02	.1812-02	.9000	.6546-04	.7874-04	.5091-01	.3931	533.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U151)

AFT FUSE,ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	QNO SLUGS /FT3	MU LB-SEC /FT2
765	.5049	7.900	39.98	-.3466-02	100.4	1250.	92.69	.1116-01	.4875	3729.	.3249-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
765	.1710-01	.5692-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
765	4.6920	24.576	2341.0	.7579-01	.9184-01	.9184-01	.9000	.1296-02	.1570-02	.9268	6.916	534.5
765	4.6920	24.913	2342.0	.1469	.1785	.1785	.9000	.2512-02	.3053-02	1.773	12.34	544.1
765	4.7220	25.475	2343.0	.1735	.2112	.2112	.9000	.2967-02	.3612-02	2.077	14.88	549.6
765	4.7590	26.038	2344.0	.1019	.1237	.1237	.9000	.1743-02	.2115-02	1.239	8.929	538.7
765	4.9020	24.576	2336.0	.5463-01	.6602-01	.6602-01	.9000	.9341-03	.1129-02	.6764	5.071	525.5
765	4.9020	24.913	2337.0	.1078	.1307	.1307	.9000	.1844-02	.2235-02	1.314	9.476	537.0
765	4.9020	25.575	2338.0	.8181-01	.9920-01	.9920-01	.9000	.1399-02	.1696-02	.9976	7.968	536.5
765	4.9020	26.138	2339.0	.5011-01	.6069-01	.6069-01	.9000	.8569-03	.1038-02	.6147	5.298	532.3
765	5.5650	24.576	2320.0	.1255-02	.1517-02	.1517-02	.9000	.2145-04	.2593-04	.1553-01	.1184	525.9
765	5.5650	24.913	2321.0	.3560-03	.4305-03	.4305-03	.9000	.6088-05	.7361-05	.4399-02	.3730-01	527.0
765	5.5650	25.476	2322.0	.9819-03	.1187-02	.1187-02	.9000	.1679-04	.2030-04	.1213-01	.1010	527.2
765	5.5650	26.038	2323.0	.1284-02	.1551-02	.1551-02	.9000	.2195-04	.2652-04	.1592-01	.1236	524.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U151)

AFT FUSE.ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BOFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
759	1.001	7.940	39.99	-.4655-06	206.7	1270.	93.30	.2224-01	.9813	3760.	.6433-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
759	.2433-01	.4053-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
759	4.6920	24.576	2341.0	.7887-01	.9575-01	.9575-01	.9000	.1919-02	.2329-02	1.382	10.24	549.3
759	4.6920	24.913	2342.0	.1538	.1873	.1873	.9000	.3740-02	.4556-02	2.652	18.31	560.7
759	4.7220	25.475	2343.0	.1902	.2324	.2324	.9000	.4627-02	.5654-02	3.235	22.94	570.5
759	4.7590	26.038	2344.0	.1191	.1446	.1446	.9000	.2897-02	.3518-02	2.084	14.92	550.5
759	4.9020	24.576	2336.0	.5491-01	.6652-01	.6652-01	.9000	.1336-02	.1618-02	.9724	7.229	541.8
759	4.9020	24.913	2337.0	.1226	.1492	.1492	.9000	.2983-02	.3629-02	2.130	15.21	555.9
759	4.9020	25.575	2338.0	.1128	.1370	.1370	.9000	.2745-02	.3333-02	1.974	15.65	550.6
759	4.9020	26.138	2339.0	.5526-01	.6687-01	.6687-01	.9000	.1344-02	.1627-02	.9824	8.440	538.8
759	5.5650	24.576	2320.0	.7372-03	.8898-03	.8898-03	.9000	.1793-04	.2165-04	.1328-01	.1010	529.2
759	5.5650	24.913	2321.0	.3150-03	.3802-03	.3802-03	.9000	.7663-05	.9249-05	.5675-02	.4808-01	529.1
759	5.5650	25.476	2322.0	.1401-02	.1692-02	.1692-02	.9000	.3409-04	.4115-04	.2524-01	.2098	529.3
759	5.5650	26.039	2323.0	.8779-03	.1059-02	.1059-02	.9000	.2135-04	.2577-04	.1582-01	.1224	529.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1121

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U151)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
753	2.020	7.980	40.04	-.4678-06	434.4	1293.	94.11	.4523-01	2.016	3795.	.297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
753	.3498-01	.2859-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
753	4.6920	24.576	2341.0	.1022	.1242	.1242	.9000	.3573-02	.4343-02	2.604	19.15	563.8
753	4.6920	24.913	2342.0	.1612	.1965	.1965	.9000	.5637-02	.6873-02	4.050	27.77	574.2
753	4.7220	25.475	2343.0	.2456	.3034	.3034	.9000	.8590-02	.1061-01	5.829	40.46	614.1
753	4.7590	26.038	2344.0	.1427	.1736	.1736	.9000	.4992-02	.6073-02	3.626	25.77	566.3
753	4.9020	24.576	2336.0	.7731-01	.9369-01	.9369-01	.9000	.2704-02	.3277-02	1.999	14.77	553.5
753	4.9020	24.913	2337.0	.1733	.2120	.2120	.9000	.6061-02	.7415-02	4.290	30.20	584.9
753	4.9020	25.575	2338.0	.1505	.1832	.1832	.9000	.5262-02	.6409-02	3.803	29.87	569.9
753	4.9020	26.138	2339.0	.6777-01	.8201-01	.8201-01	.9000	.2370-02	.2868-02	1.765	15.10	548.0
753	5.5650	24.576	2320.0	.1013-02	.1220-02	.1220-02	.9000	.3544-04	.4268-04	.2702-01	.2055	530.3
753	5.5650	24.913	2321.0	.3845-03	.4630-03	.4630-03	.9000	.1345-04	.1619-04	.1026-01	.8683-01	530.1
753	5.5650	25.476	2322.0	.1669-02	.2010-02	.2010-02	.9000	.5838-04	.7030-04	.4449-01	.3696	530.6
753	5.5650	26.038	2323.0	.1315-02	.1583-02	.1583-02	.9000	.4600-04	.5537-04	.3515-01	.2721	528.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U151)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
747	2.979	7.990	40.06	-4686-06	660.0	1316.	95.56	.6816-01	3.046	3829.	.1925-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
747	.4312-01	.2351-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
747	4.6920	24.576	2341.0	.1457	.1778	.1778	.9000	.6284-02	.7666-02	4.584	33.33	586.2
747	4.6920	24.913	2342.0	.2256	.2763	.2763	.9000	.9728-02	.1191-01	6.978	47.28	598.4
747	4.7220	25.475	2343.0	.3047	.3797	.3797	.9000	.1314-01	.1637-01	8.746	59.66	650.0
747	4.7590	26.038	2344.0	.1532	.1866	.1866	.9000	.6607-02	.8047-02	4.855	34.26	580.8
747	4.9020	24.576	2336.0	.1123	.1364	.1364	.9000	.4843-02	.5883-02	3.602	26.38	571.9
747	4.9020	24.913	2337.0	.2647	.3262	.3262	.9000	.1142-01	.1407-01	7.974	55.26	617.2
747	4.9020	25.575	2338.0	.1764	.2152	.2152	.9000	.7607-02	.9278-02	5.557	43.32	585.1
747	4.9020	26.138	2339.0	.7397-01	.8944-01	.8944-01	.9000	.3190-02	.3857-02	2.426	20.67	555.2
747	5.5650	24.576	2320.0	.1045-02	.1256-02	.1256-02	.9000	.4505-04	.5417-04	.3518-01	.2670	534.7
747	5.5650	24.913	2321.0	.5807-03	.6981-03	.6981-03	.9000	.2504-04	.3011-04	.1958-01	.1654	533.8
747	5.5650	25.476	2322.0	.1927-02	.2318-02	.2318-02	.9000	.8310-04	.9995-04	.6483-01	.5372	535.6
747	5.5650	26.038	2323.0	.1253-02	.1507-02	.1507-02	.9000	.5405-04	.6500-04	.4221-01	.3258	534.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U152)

AFT FUSE, ELEVON

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 23.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
763	X10 6 .4981	7.900	39.97	-.3462-02	99.31	1252.	92.84	.1104-01	.4822	3732.	.3209-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
763	.1701-01	.5729-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
763	4.6920	24.576	2341.0	.7361-01	.8939-01	.8939-01	.9000	.1252-02	.1521-02	.8878	6.597	542.6
763	4.6920	24.913	2342.0	.1464	.1782	.1782	.9000	.2489-02	.3030-02	1.745	12.11	550.6
763	4.7220	25.475	2343.0	.1614	.1966	.1966	.9000	.2745-02	.3345-02	1.916	13.70	553.8
763	4.7590	26.038	2344.0	.5384-01	.6533-01	.6533-01	.9000	.9158-03	.1111-02	.6519	4.695	539.8
763	4.9020	24.576	2336.0	.5127-01	.6214-01	.6214-01	.9000	.8720-03	.1057-02	.6236	4.649	536.5
763	4.9020	24.913	2337.0	.1080	.1313	.1313	.9000	.1837-02	.2233-02	1.298	9.325	545.1
763	4.9020	25.575	2338.0	.8085-01	.9814-01	.9814-01	.9000	.1375-02	.1669-02	.9771	7.786	541.2
763	4.9020	26.138	2339.0	.3630-01	.4399-01	.4399-01	.9000	.6175-03	.7483-03	.4421	3.805	535.6
763	5.5650	24.576	2320.0	.2906-03	.3514-03	.3514-03	.9000	.4943-05	.5977-05	.3576-02	.2722-01	528.3
763	5.5650	24.913	2321.0	.1787-03	.2161-03	.2161-03	.9000	.3040-05	.3676-05	.2199-02	.1863-01	528.5
763	5.5650	25.476	2322.0	.8491-03	.1027-02	.1027-02	.9000	.1444-04	.1747-04	.1044-01	.8684-01	528.6
763	5.5650	26.038	2323.0	.7799-03	.9431-03	.9431-03	.9000	.1327-04	.1604-04	.9594-02	.7429-01	528.4



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1124

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U152)

AFT FUSE, ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 23.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
761	1.006	7.940	39.99	-1.4652-06	206.4	1265.	92.93	.2220-01	.9799	3752.	.6449-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
761	.2429-01	.4046-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
761	4.6920	24.576	2341.0	.7911-01	.9612-01	.9612-01	.9000	.1922-02	.2335-02	1.373	10.17	550.1
761	4.6920	24.913	2342.0	.1461	.1781	.1781	.9000	.3548-02	.4327-02	2.494	17.21	561.7
761	4.7220	25.475	2343.0	.1860	.2275	.2275	.9000	.4518-02	.5526-02	3.133	22.21	571.3
761	4.7590	26.038	2344.0	.8996-01	.1093	.1093	.9000	.2185-02	.2655-02	1.563	11.20	549.6
761	4.9020	24.576	2336.0	.5385-01	.6528-01	.6528-01	.9000	.1308-02	.1586-02	.9447	7.021	542.5
761	4.9020	24.913	2337.0	.1205	.1467	.1467	.9000	.2927-02	.3564-02	2.072	14.80	556.8
761	4.9020	25.575	2338.0	.1108	.1348	.1348	.9000	.2693-02	.3273-02	1.920	15.22	551.7
761	4.9020	26.138	2339.0	.4799-01	.5802-01	.5802-01	.9000	.1163-02	.1410-02	.8421	7.227	540.8
761	5.5650	24.576	2320.0	.1090-02	.1316-02	.1316-02	.9000	.2647-04	.3197-04	.1945-01	.1480	529.8
761	5.5650	24.913	2321.0	.3279-03	.3960-03	.3960-03	.9000	.7964-05	.9619-05	.5853-02	.4957-01	529.7
761	5.5650	25.476	2322.0	.1624-02	.1962-02	.1962-02	.9000	.3946-04	.4766-04	.2899-01	.2409	530.0
761	5.5650	26.038	2323.0	.1080-02	.1304-02	.1304-02	.9000	.2623-04	.3168-04	.1928-01	.1492	529.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1125

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(RWU152)

AFT FUSE.ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
751	1.997	7.980	40.06	-4.685-06	435.2	1309.	95.27	.4531-01	2.020	3818.	.1284-02	.7667-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
751	.3508-01	.2878-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
751	4.6920	24.576	2341.0	.1015	.1231	.1231	.9000	.3559-02	.4320-02	2.645	19.43	565.5
751	4.6920	24.913	2342.0	.1620	.1973	.1973	.9000	.5685-02	.6921-02	4.163	28.52	576.3
751	4.7220	25.475	2343.0	.2628	.3233	.3238	.9000	.9219-02	.1136-01	6.399	44.40	614.6
751	4.7590	26.038	2344.0	.1416	.1719	.1719	.9000	.4966-02	.6032-02	3.679	26.12	567.9
751	4.9020	24.576	2336.0	.7760-01	.9389-01	.9389-01	.9000	.2722-02	.3294-02	2.053	15.17	554.5
751	4.9020	24.913	2337.0	.1640	.2002	.2002	.9000	.5754-02	.7024-02	4.163	29.31	585.1
751	4.9020	25.575	2338.0	.1496	.1818	.1818	.9000	.5248-02	.6380-02	3.870	30.38	571.1
751	4.9020	26.138	2339.0	.6771-01	.8180-01	.8180-01	.9000	.2376-02	.2870-02	1.804	15.42	549.1
751	5.5650	24.576	2320.0	.8172-03	.9823-03	.9823-03	.9000	.2867-04	.3446-04	.2232-01	.1698	530.1
751	5.5650	24.913	2321.0	.4653-03	.5592-03	.5592-03	.9000	.1632-04	.1962-04	.1271-01	.1077	529.8
751	5.5650	25.476	2322.0	.1526-02	.1834-02	.1834-02	.9000	.5353-04	.6436-04	.4163-01	.3457	531.0
751	5.5650	26.038	2323.0	.1250-02	.1503-02	.1503-02	.9000	.4386-04	.5273-04	.3412-01	.2639	530.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1126

OH84B 60-0 AFT FUSELAGE AND ELEVON SPLIT LINE

(R4U152)

AFT FUSE,ELEVON

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 23.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
749	2.958	7.990	40.06	-4.686-06	659.9	1322.	96.00	.6815-01	3.045	3838.	.1916-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
749	.4315-01	.2358-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	ZO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
749	4.6920	24.576	2341.0	.1444	.1760	.1760	.9000	.6231-02	.7594-02	4.586	33.36	585.6
749	4.6920	24.913	2342.0	.2081	.2544	.2544	.9000	.8980-02	.1098-01	6.515	44.19	596.2
749	4.7220	25.475	2343.0	.3063	.3817	.3817	.9000	.1322-01	.1647-01	8.839	60.21	652.9
749	4.7590	26.038	2344.0	.1535	.1870	.1870	.9000	.6626-02	.8068-02	4.897	34.52	582.5
749	4.9020	24.576	2336.0	.1084	.1316	.1316	.9000	.4679-02	.5678-02	3.516	25.77	570.3
749	4.9020	24.913	2337.0	.2374	.2915	.2915	.9000	.1024-01	.1258-01	7.290	50.70	610.0
749	4.9020	25.575	2338.0	.1783	.2174	.2174	.9000	.7694-02	.9382-02	5.651	44.00	587.2
749	4.9020	26.138	2339.0	.7551-01	.9127-01	.9127-01	.9000	.3259-02	.3939-02	2.494	21.24	556.2
749	5.5650	24.576	2320.0	.1302-02	.1565-02	.1565-02	.9000	.5620-04	.6753-04	.4426-01	.3360	534.0
749	5.5650	24.913	2321.0	.6066-03	.7287-03	.7287-03	.9000	.2618-04	.3145-04	.2064-01	.1745	533.0
749	5.5650	25.476	2322.0	.1821-02	.2189-02	.2189-02	.9000	.7860-04	.9446-04	.6186-01	.5128	534.7
749	5.5650	26.038	2323.0	.1849-02	.2221-02	.2221-02	.9000	.7978-04	.9584-04	.6291-01	.4860	533.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1127

OH84B 60-0 UPPER RH WING

(R4UJ02)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
117	3.002	7.990	29.96	-4.030	671.8	1325.	96.21	.6938-01	3.100	3842.	.1946-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
117	.4356-01	.2340-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTAWT DEG. R /SEC	TW DEG. R
117	1.9980	10.859	2249.0	.1040-01	.1252-01	.1252-01	.9000	.4529-03	.5455-03	.3534	2.624	544.3
117	1.9980	11.983	2250.0	.1450-02	.1746-02	.1746-02	.9000	.6317-04	.7603-04	.4946-01	.3940	541.7
117	1.9880	13.107	2251.0	.4094-03	.4927-03	.4927-03	.9000	.1783-04	.2146-04	.1397-01	.1039	541.3
117	1.9680	14.195	2252.0	.8983-04	.1081-03	.1081-03	.9000	.3913-05	.4710-05	.3064-02	.3106-01	541.7
117	2.0470	22.330	2255.0	.8745-04	.1053-03	.1053-03	.9000	.3809-05	.4586-05	.2979-02	.2291-01	542.5
117	2.0490	19.941	2254.0	.1415-03	.1704-03	.1704-03	.9000	.6162-05	.7423-05	.4807-02	.5948-01	544.6
117	2.4590	14.195	2256.0	.2081-02	.2505-02	.2505-02	.9000	.9064-04	.1091-03	.7096-01	.7914	541.7
117	2.4590	15.535	2257.0	.1754-02	.2088-02	.2088-02	.9000	.7553-04	.9093-04	.5906-01	.4876	542.7
117	2.4590	16.875	2258.0	.1215-04	.1462-04	.1462-04	.9000	.5290-06	.6370-06	.4133-03	.4606-02	543.4
117	2.4590	19.555	2260.0	.1700-02	.2050-02	.2050-02	.9000	.7405-04	.8928-04	.5751-01	.4566	548.1
117	2.4590	22.235	2262.0	.1637-03	.1972-03	.1972-03	.9000	.7131-05	.8591-05	.5560-02	.4127-01	545.0
117	2.4590	23.576	2263.0	.5032-03	.6058-03	.6058-03	.9000	.2192-04	.2639-04	.1714-01	.1318	542.6
117	5.1380	24.080	2279.0	.8151-02	.9829-02	.9829-02	.9000	.3550-03	.4281-03	.2756	2.042	548.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER RH WING

(R4UJ02)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
130	3.691	8.000	29.96	-4.050	853.4	1351.	97.87	.8742-01	3.916	3880.	.2411-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
130	.4912-01	.2107-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
130	1.9880	10.859	2249.0	.1062-01	.1278-01	.1278-01	.9000	.5218-03	.6276-03	.4180	3.096	549.5
130	1.9880	11.983	2250.0	.1537-02	.1848-02	.1848-02	.9000	.7552-04	.9075-04	.6077-01	.4830	546.0
130	1.9880	13.107	2251.0	.3858-03	.4636-03	.4636-03	.9000	.1895-04	.2277-04	.1525-01	.1132	545.8
130	1.9880	14.195	2252.0	.3459-04	.4158-04	.4158-04	.9000	.1699-05	.2042-05	.1366-02	.1381-01	546.7
130	2.0470	22.330	2255.0	.3080-04	.3704-04	.3704-04	.9000	.1513-05	.1819-05	.1213-02	.9293-02	549.1
130	2.0490	19.941	2254.0	.2469-03	.2971-03	.2971-03	.9000	.1213-04	.1460-04	.9692-02	.1195	551.6
130	2.4590	14.195	2256.0	.2313-02	.2780-02	.2780-02	.9000	.1136-03	.1366-03	.9140-01	1.017	546.4
130	2.4590	15.535	2257.0	.2018-02	.2427-02	.2427-02	.9000	.9913-04	.1192-03	.7954-01	.6549	548.3
130	2.4590	19.555	2260.0	.1989-02	.2396-02	.2396-02	.9000	.9770-04	.1177-03	.7762-01	.6138	556.2
130	2.4590	22.235	2262.0	.7419-04	.8930-04	.8930-04	.9000	.3645-05	.4387-05	.2910-02	.2152-01	552.2
130	2.4590	23.576	2263.0	.4585-03	.5515-03	.5515-03	.9000	.2252-04	.2709-04	.1805-01	.1383	549.3
130	5.1380	24.080	2279.0	.1133-01	.1366-01	.1366-01	.9000	.5563-03	.6709-03	.4400	3.242	559.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1129

OH84B 60-0 UPPER RH WING

(R4UJ03)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RMO SLUGS /FT3	MU LB-SEC /FT2
153	1.989	7.980	29.95	-2.020	434.7	1307.	95.13	.4526-01	2.017	3815.	.1284-07	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
153	.3505-01	.2877-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
153	1.9880	10.859	2249.0	.1309-01	.1580-01	.1580-01	.9000	.4590-03	.5540-03	.3495	2.594	545.2
153	1.9880	11.983	2250.0	.2061-02	.2486-02	.2486-02	.9000	.7224-04	.8714-04	.5522-01	.4397	542.3
153	1.9880	13.107	2251.0	.7552-03	.9108-03	.9108-03	.9000	.2647-04	.3193-04	.2024-01	.1505	542.1
153	1.9880	14.195	2252.0	.2994-03	.3612-03	.3612-03	.9000	.1050-04	.1266-04	.8019-02	.8127-02	542.6
153	2.0490	19.941	2254.0	.5737-04	.6924-04	.6924-04	.9000	.2011-05	.2427-05	.1533-02	.1896-01	544.5
153	2.4590	14.195	2256.0	.2736-02	.3299-02	.3299-02	.9000	.9589-04	.1157-03	.7333-01	.8177	541.9
153	2.4590	15.535	2257.0	.1722-02	.2077-02	.2077-02	.9000	.6036-04	.7281-04	.4609-01	.3805	543.0
153	2.4590	16.875	2258.0	.1619-03	.1954-03	.1954-03	.9000	.5677-05	.6851-05	.4329-02	.4822-01	544.1
153	2.4590	18.215	2259.0	.1196-03	.1444-03	.1444-03	.9000	.4192-05	.5060-05	.3192-02	.4442-01	545.2
153	2.4590	19.555	2260.0	.1577-02	.1905-02	.1905-02	.9000	.5528-04	.6678-04	.4197-01	.3333	547.5
153	2.4590	23.576	2263.0	.2087-03	.2517-03	.2517-03	.9000	.7317-05	.8825-05	.5598-02	.4305-01	541.7
153	5.1380	24.080	2279.0	.4864-02	.5875-02	.5875-02	.9000	.1705-03	.2060-03	.1294	.9590	547.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1130

OH84B 60-0 UPPER RH WING

(R4UJ081)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
114	3.016	7.990	29.95	-2.018	673.4	1323.	96.07	.6954-01	3.108	3839.	.1954-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
114	.4360-01	.2335-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. A
114	1.9880	10.859	2249.0	.1248-01	.1504-01	.1504-01	.9000	.5443-03	.6557-03	.4236	3.146	544.3
114	1.9880	11.983	2250.0	.1826-02	.2197-02	.2197-02	.9000	.7959-04	.9581-04	.6221-01	.4957	541.1
114	1.9880	13.107	2251.0	.6376-03	.7674-03	.7674-03	.9000	.2780-04	.3346-04	.2174-01	.1617	540.6
114	1.9880	14.195	2252.0	.2049-03	.2466-03	.2466-03	.9000	.8932-05	.1075-04	.6961-02	.7079-01	541.1
114	2.0490	19.941	2254.0	.2550-03	.3072-03	.3072-03	.9000	.1112-04	.1339-04	.8660-02	.1072	543.8
114	2.4590	14.195	2256.0	.2467-02	.2970-02	.2970-02	.9000	.1076-03	.1295-03	.8410-01	.9383	540.9
114	2.4590	15.535	2257.0	.2302-02	.2772-02	.2772-02	.9000	.1004-03	.1209-03	.7834-01	.6470	542.2
114	2.4590	16.875	2258.0	.2968-03	.3575-03	.3575-03	.9000	.1294-04	.1559-04	.1009-01	.1125	543.0
114	2.4590	18.215	2259.0	.2171-03	.2616-03	.2616-03	.9000	.9467-05	.1140-04	.7373-02	.1027	543.9
114	2.4590	19.555	2260.0	.2023-02	.2440-02	.2440-02	.9000	.8822-04	.1064-03	.6842-01	.5435	547.1
114	2.4590	23.576	2263.0	.1742-03	.2097-03	.2097-03	.9000	.7597-05	.9145-05	.5938-02	.4569-01	541.0
114	5.1380	24.080	2279.0	.8237-02	.9927-02	.9927-02	.9000	.3591-03	.4328-03	.2790	2.070	545.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1131

OH84B 60-0 UPPER RH WING

(R4UJ03)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
127	3.689	8.000	29.96	-2.010	854.0	1352.	97.95	.8748-01	3.919	3881.	.2411-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
127	.4915-01	.2107-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
127	1.9880	10.859	2249.0	.1255-01	.1510-01	.1510-01	.9000	.6170-03	.7422-03	.4941	3.657	550.8
127	1.9880	11.983	2250.0	.1810-02	.2176-02	.2176-02	.9000	.8897-04	.1069-03	.7160-01	.5688	547.0
127	1.9880	13.107	2251.0	.5417-03	.6509-03	.6509-03	.9000	.2662-04	.3199-04	.2144-01	.1590	546.3
127	1.9880	14.195	2252.0	.7908-04	.9504-04	.9504-04	.9000	.3886-05	.4671-05	.3128-02	.3162-01	546.9
127	2.0490	19.941	2254.0	.2827-03	.3401-03	.3401-03	.9000	.1389-04	.1672-04	.1112-01	.1371	551.3
127	2.4590	14.195	2256.0	.2518-02	.3026-02	.3026-02	.9000	.1237-03	.1487-03	.9947-01	1.106	547.7
127	2.4590	15.535	2257.0	.2428-02	.2919-02	.2919-02	.9000	.1193-03	.1435-03	.9576-01	.7882	549.0
127	2.4590	16.875	2258.0	.2910-03	.3500-03	.3500-03	.9000	.1430-04	.1720-04	.1147-01	.1273	549.9
127	2.4590	18.215	2259.0	.1890-03	.2258-03	.2258-03	.9000	.9286-05	.1115-04	.7518-02	.1048	542.1
127	2.4590	19.555	2260.0	.2014-02	.2426-02	.2426-02	.9000	.9897-04	.1192-03	.7877-01	.6230	555.8
127	2.4590	23.576	2263.0	.2689-03	.3233-03	.3233-03	.9000	.1321-04	.1589-04	.1061-01	.8132-01	548.7
127	5.1380	24.080	2279.0	.1181-01	.1424-01	.1424-01	.9000	.5803-03	.6998-03	.4593	3.383	560.2



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1132

OH84B 60-0 UPPER RH WING

(R4UJ04)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
150	1.973	7.980	29.94	-1.005	435.5	1316.	95.78	.4534-01	2.021	3829.	.1278-02	.7708-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
150	.3513-01	.2886-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
150	1.9880	10.859	2249.0	.1371-01	.1653-01	.1653-01	.9000	.4818-03	.5808-03	.3718	2.761	544.0
150	1.9880	11.983	2250.0	.2089-02	.2517-02	.2517-02	.9000	.7338-04	.9840-04	.5680-01	.4525	541.5
150	1.9880	13.107	2251.0	.8281-03	.9976-03	.9976-03	.9000	.2909-04	.3505-04	.2253-01	.1675	541.3
150	1.9880	14.195	2252.0	.3427-03	.4129-03	.4129-03	.9000	.1204-04	.1450-04	.9316-02	.9445-01	541.8
150	2.0490	19.941	2254.0	.1259-03	.1517-03	.1517-03	.9000	.4423-05	.5330-05	.3419-02	.4235-01	542.6
150	2.4590	14.195	2256.0	.2666-02	.3211-02	.3211-02	.9000	.9363-04	.1128-03	.7254-01	.8093	541.0
150	2.4590	15.535	2257.0	.1953-02	.2353-02	.2353-02	.9000	.6861-04	.8267-04	.5310-01	.4387	541.8
150	2.4590	16.875	2258.0	.3202-03	.3859-03	.3859-03	.9000	.1125-04	.1356-04	.8696-02	.9694-01	542.6
150	2.4590	18.215	2259.0	.2599-03	.3132-03	.3132-03	.9000	.9129-05	.1100-04	.7053-01	.9826-01	543.0
150	2.4590	19.555	2260.0	.1659-02	.2000-02	.2000-02	.9000	.5826-04	.7025-04	.4491-01	.3572	544.9
150	2.4590	20.895	2261.0	.3529-03	.4253-03	.4253-03	.9000	.1240-04	.1494-04	.9577-02	.8539-01	543.1
150	2.4590	22.235	2262.0	.1399-03	.1686-03	.1686-03	.9000	.4916-05	.5923-05	.3805-02	.2829-01	541.8
150	2.4590	23.576	2263.0	.2173-04	.2617-04	.2617-04	.9000	.7634-06	.9192-06	.5923-03	.4560-02	539.6
150	5.1380	24.080	2279.0	.4333-02	.5221-02	.5221-02	.9000	.1522-03	.1834-03	.1178	.8753	542.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1133

OH84B 60-0 UPPER RH WING

(R4UJ04)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
111	2.999	7.990	29.94	-.9974	671.3	1325.	96.21	.6932-01	3.098	3842.	.1945-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
111	.4354-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	I/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
111	1.9880	10.859	2249.0	.1322-01	.1592-01	.1592-01	.9000	.5754-03	.6932-03	.4486	3.330	545.0
111	1.9880	11.983	2250.0	.1939-02	.2333-02	.2333-02	.9000	.8439-04	.1016-03	.6606-01	.5261	541.9
111	1.9880	13.107	2251.0	.6455-03	.7769-03	.7769-03	.9000	.2811-04	.3383-04	.2201-01	.1637	541.4
111	1.9880	14.195	2252.0	.1388-03	.1671-03	.1671-03	.9000	.6046-05	.7277-05	.4732-02	.4797-01	541.9
111	2.0490	19.941	2254.0	.2110-03	.2541-03	.2541-03	.9000	.9187-05	.1107-04	.7167-02	.8869-01	544.5
111	2.4590	14.195	2256.0	.2582-02	.3109-02	.3109-02	.9000	.1124-03	.1354-03	.8801-01	.9814	542.0
111	2.4590	15.535	2257.0	.2434-02	.2931-02	.2931-02	.9000	.1060-03	.1276-03	.8283-01	.6838	543.1
111	2.4590	16.875	2258.0	.4055-03	.4860-03	.4860-03	.9000	.1757-04	.2116-04	.1372-01	.1528	544.0
111	2.4590	18.215	2259.0	.3204-03	.3859-03	.3859-03	.9000	.1395-04	.1680-04	.1088-01	.1514	544.8
111	2.4590	19.555	2260.0	.2098-02	.2530-02	.2530-02	.9000	.9137-04	.1102-03	.7097-01	.5636	547.9
111	2.4590	23.576	2263.0	.3547-03	.4269-03	.4269-03	.9000	.1544-04	.1859-04	.1209-01	.9294-01	542.0
111	5.1380	24.080	2279.0	.8347-02	.1006-01	.1006-01	.9000	.3634-03	.4381-03	.2826	2.095	547.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1134

OH84B 60-0 UPPER RH WING

(R4UJ04)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -1.000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
123	3.685	8.000	29.95	-1.9857	853.2	1352.	97.95	.8740-01	3.915	3881.	.2408-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
123	.4912-01	.2108-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
123	1.9880	10.859	2249.0	.1326-01	.1595-01	.1595-01	.9000	.6516-03	.7836-03	.5229	3.873	549.2
123	1.9880	11.983	2250.0	.2002-02	.2406-02	.2406-02	.9000	.9836-04	.1182-03	.7929-01	.6304	545.6
123	1.9880	13.107	2251.0	.6288-03	.7553-03	.7553-03	.9000	.3089-04	.3710-04	.2492-01	.1850	544.8
123	1.9880	14.195	2252.0	.1382-03	.1661-03	.1661-03	.9000	.6790-05	.8157-05	.5474-02	.5540-01	545.4
123	2.0470	22.330	2255.0	.1544-04	.1855-04	.1855-04	.9000	.7583-06	.9112-06	.6106-03	.4685-02	546.4
123	2.0490	19.941	2254.0	.2786-03	.3350-03	.3350-03	.9000	.1368-04	.1645-04	.1098-01	.1356	549.0
123	2.4590	14.195	2256.0	.2748-02	.3302-02	.3302-02	.9000	.1350-03	.1622-03	.1088	1.211	545.7
123	2.4590	15.535	2257.0	.2770-02	.3329-02	.3329-02	.9000	.1361-03	.1635-03	.1095	.9019	547.1
123	2.4590	16.875	2258.0	.4323-03	.5198-03	.5198-03	.9000	.2124-04	.2553-04	.1707-01	.1897	548.0
123	2.4590	18.215	2259.0	.3157-03	.3796-03	.3796-03	.9000	.1551-04	.1865-04	.1245-01	.1729	549.0
123	2.4590	19.555	2260.0	.2301-02	.2770-02	.2770-02	.9000	.1130-03	.1361-03	.9025-01	.7148	553.2
123	2.4590	23.576	2263.0	.4894-03	.5881-03	.5881-03	.9000	.2404-04	.2889-04	.1936-01	.1486	546.2
123	5.1380	24.080	2279.0	.1204-01	.1450-01	.1450-01	.9000	.5915-03	.7124-03	.4712	3.479	555.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1135

OH84B 60-0 UPPER RH WING

(R4UJ06)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
11	.5125	7.900	29.95	.4910-02	100.6	1239.	91.88	.1118-01	.4884	3712.	.3284-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
11	.1709-01	.5657-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
11	1.9880	10.859	2249.0	.1525-01	.1855-01	.1855-01	.9000	.2606-03	.3170-03	.1814	1.348	542.7
11	1.9880	11.983	2250.0	.2216-02	.2694-02	.2694-02	.9000	.3786-04	.4604-04	.2641-01	.2105	541.1
11	1.9880	13.107	2251.0	.9433-03	.1147-02	.1147-02	.9000	.1612-04	.1960-04	.1125-01	.8366-01	540.9
11	1.9890	14.195	2252.0	.2752-03	.3346-03	.3346-03	.9000	.4703-05	.5718-05	.3282-02	.3329-01	540.8
11	2.4590	14.195	2256.0	.2734-02	.3324-02	.3324-02	.9000	.4672-04	.5681-04	.3259-01	.3635	541.2
11	2.4590	15.535	2257.0	.1406-02	.1709-02	.1709-02	.9000	.2402-04	.2921-04	.1677-01	.1386	540.7
11	2.4590	16.875	2258.0	.2093-03	.2545-03	.2545-03	.9000	.3577-05	.4349-05	.2497-02	.2787-01	540.6
11	2.4590	18.215	2259.0	.1896-03	.2305-03	.2305-03	.9000	.3241-05	.3940-05	.2263-02	.3157-01	540.4
11	2.4590	19.555	2260.0	.1646-03	.2001-03	.2001-03	.9000	.2812-05	.3419-05	.1963-02	.1565-01	540.6
11	2.4590	20.895	2261.0	.4447-03	.5406-03	.5406-03	.9000	.7600-05	.9238-05	.5309-02	.4740-01	540.1
11	2.4590	23.576	2263.0	.1194-03	.1450-03	.1450-03	.9000	.2040-05	.2479-05	.1426-02	.1098-01	539.3
11	5.1380	24.080	2279.0	.7319-03	.8900-03	.8900-03	.9000	.1251-04	.1521-04	.8723-02	.6487-01	541.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1136

OH84B 60-0 UPPER RH WING

(R4UJ06)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
48	1.981	7.980	29.96	.2453-02	434.4	1310.	95.35	.4522-01	2.016	3820.	.1280-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
48	.3505-01	.2882-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
48	1.9880	10.859	2249.0	.1478-01	.1782-01	.1782-01	.9000	.5181-03	.6248-03	.3972	2.952	542.9
48	1.9880	11.983	2250.0	.2280-02	.2748-02	.2748-02	.9000	.7993-04	.9632-04	.6150-01	.4903	540.2
48	1.9880	13.107	2251.0	.1055-02	.1271-02	.1271-02	.9000	.3698-04	.4456-04	.2848-01	.2119	539.7
48	1.9880	14.195	2252.0	.4977-03	.5997-03	.5997-03	.9000	.1745-04	.2102-04	.1343-01	.1363	539.9
48	2.0470	22.330	2255.0	.2710-04	.3265-04	.3265-04	.9000	.9501-06	.1144-05	.7330-03	.5648-02	538.2
48	2.0490	19.941	2254.0	.1641-03	.1978-03	.1978-03	.9000	.5753-05	.6933-05	.4428-02	.5492-01	540.0
48	2.4590	14.195	2256.0	.2809-02	.3384-02	.3384-02	.9000	.9845-04	.1186-03	.7584-01	.8468	539.3
48	2.4590	15.535	2257.0	.2190-02	.2639-02	.2639-02	.9000	.7677-04	.9251-04	.5911-01	.4888	539.7
48	2.4590	16.875	2258.0	.5506-03	.6636-03	.6636-03	.9000	.1930-04	.2326-04	.1485-01	.1657	540.4
48	2.4590	18.215	2259.0	.3614-03	.4356-03	.4356-03	.9000	.1267-04	.1527-04	.9743-02	.1359	540.6
48	2.4590	19.555	2260.0	.1654-02	.1995-02	.1995-02	.9000	.5799-04	.6993-04	.4448-01	.3542	542.6
48	2.4590	20.895	2261.0	.1159-05	.1409-05	.1409-05	.9000	.4097-07	.4938-07	.3150-04	.2812-03	540.8
48	2.4590	22.235	2262.0	.3456-03	.4165-03	.4165-03	.9000	.1212-04	.1460-04	.9328-02	.6942-01	539.8
48	2.4590	23.576	2263.0	.3895-03	.4691-03	.4691-03	.9000	.1365-04	.1644-04	.1053-01	.8115-01	538.2
48	5.1380	24.080	2279.0	.3220-02	.3883-02	.3883-02	.9000	.1129-03	.1361-03	.8663-01	.6439	542.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1137

OH84B 60-0 UPPER RH WING

(R4UJ06)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
77	X10 6 3.028	7.990	29.38	-.2446-02	670.1	1315.	95.49	.6920-01	3.092	3827.	.1956-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
77	.4345-01	.2332-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
77	1.9880	10.859	2249.0	.1392-01	.1690-01	.1680-01	.9000	.6048-03	.7297-03	.4646	3.446	546.5
77	1.9880	11.983	2250.0	.1980-02	.2387-02	.2387-02	.9000	.8601-04	.1037-03	.6633-01	.5279	543.6
77	1.9880	13.107	2251.0	.6514-03	.7851-03	.7851-03	.9000	.2830-04	.3411-04	.2184-01	.1623	543.0
77	1.9880	14.195	2252.0	.1963-03	.2367-03	.2367-03	.9000	.8530-05	.1028-04	.6578-02	.6663-01	543.5
77	2.0470	22.330	2255.0	.9517-05	.1147-04	.1147-04	.9000	.4135-06	.4982-06	.3194-03	.2457-02	542.0
77	2.0490	19.941	2254.0	.2073-03	.2500-03	.2500-03	.9000	.9008-05	.1086-04	.6935-02	.8580-01	544.8
77	2.4590	14.195	2256.0	.2662-02	.3209-02	.3209-02	.9000	.1156-03	.1394-03	.8915-01	.9933	543.7
77	2.4590	15.535	2257.0	.2673-02	.3224-02	.3224-02	.9000	.1161-03	.1401-03	.8942-01	.7375	544.7
77	2.4590	16.875	2258.0	.4783-03	.5769-03	.5769-03	.9000	.2078-04	.2506-04	.1598-01	.1779	545.5
77	2.4590	18.215	2259.0	.3330-03	.4017-03	.4017-03	.9000	.1447-04	.1745-04	.1112-01	.1547	545.9
77	2.4590	19.555	2260.0	.2111-02	.2548-02	.2548-02	.9000	.9172-04	.1107-03	.7029-01	.5581	548.3
77	2.4590	22.235	2262.0	.6702-04	.8081-04	.8081-04	.9000	.2912-05	.3511-05	.2244-02	.1667-01	544.0
77	2.4590	23.576	2263.0	.4314-03	.5198-03	.5198-03	.9000	.1874-04	.2258-04	.1449-01	.1114	541.8
77	5.1380	24.080	2279.0	.7436-02	.8975-02	.8975-02	.9000	.3231-03	.3899-03	.2478	1.836	547.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1138

OH84B 60-0 UPPER RH WING

(R4UJ06)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
120	3.698	8.000	29.97	.7342-02	853.1	1349.	97.73	.8738-01	3.915	3877.	.2413-02	.7864-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
120	.4910-01	.2105-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
120	1.9880	10.859	2249.0	.1406-01	.1691-01	.1691-01	.9000	.6903-03	.8302-03	.5523	4.092	549.6
120	1.9880	11.983	2250.0	.2199-02	.2641-02	.2641-02	.9000	.1079-03	.1297-03	.8670-01	.6894	545.3
120	1.9880	13.107	2251.0	.6943-03	.8342-03	.8342-03	.9000	.3409-04	.4096-04	.2741-01	.2035	544.5
120	1.9880	14.195	2252.0	.9834-04	.1062-03	.1062-03	.9000	.4337-05	.5212-05	.3485-02	.3527-01	545.3
120	2.0470	22.330	2255.0	.9095-04	.1093-03	.1093-03	.9000	.4466-05	.5367-05	.3585-02	.2752-01	545.9
120	2.0490	19.941	2254.0	.3308-03	.3978-03	.3978-03	.9000	.1624-04	.1953-04	.1300-01	.1606	548.2
120	2.4590	14.195	2256.0	.2871-02	.3450-02	.3450-02	.9000	.1410-03	.1694-03	.1132	1.261	545.3
120	2.4590	15.535	2257.0	.2938-02	.3532-02	.3532-02	.9000	.1443-03	.1734-03	.1157	.9531	546.9
120	2.4590	16.875	2258.0	.5039-03	.6060-03	.6060-03	.9000	.2474-04	.2976-04	.1981-01	.2203	548.0
120	2.4590	18.215	2259.0	.3959-03	.4762-03	.4762-03	.9000	.1944-04	.2338-04	.1555-01	.2160	548.7
120	2.4590	19.555	2260.0	.2464-02	.2966-02	.2966-02	.9000	.1210-03	.1457-03	.9632-01	.7631	552.5
120	2.4590	23.576	2263.0	.4779-03	.5744-03	.5744-03	.9000	.2346-04	.2820-04	.1884-01	.1446	545.9
120	5.1380	24.080	2279.0	.1281-01	.1543-01	.1543-01	.9000	.6289-03	.7578-03	.4988	3.683	555.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1139

OH84B 60-0 UPPER RH WING

(R4UJ08)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
51	2.021	7.980	29.94	1.035	434.5	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
51	.3498-01	.2859-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
51	1.9880	10.859	2249.0	.1576-01	.1905-01	.1905-01	.9000	.5513-03	.6662-03	.4132	3.070	543.2
51	1.9880	11.983	2250.0	.2426-02	.2930-02	.2930-02	.9000	.8487-04	.1025-03	.6384-01	.5089	540.4
51	1.9880	13.107	2251.0	.1052-02	.1270-02	.1270-02	.9000	.3581-04	.4444-04	.2772-01	.2063	539.6
51	1.9880	14.195	2252.0	.5193-03	.6270-03	.6270-03	.9000	.1817-04	.2193-04	.1368-01	.1388	539.8
51	2.0470	22.330	2255.0	.2970-04	.3585-04	.3585-04	.9000	.1039-05	.1254-05	.7838-03	.6039-02	538.3
51	2.0490	19.941	2254.0	.1447-03	.1748-03	.1748-03	.9000	.5062-05	.6113-05	.3808-02	.4721-01	540.5
51	2.4590	14.195	2256.0	.2984-02	.3603-02	.3603-02	.9000	.1044-03	.1260-03	.7863-01	.8778	539.5
51	2.4590	15.535	2257.0	.2289-02	.2762-02	.2762-02	.9000	.8003-04	.9662-04	.6025-01	.4982	539.8
51	2.4590	16.875	2258.0	.5233-03	.6320-03	.6320-03	.9000	.1831-04	.2211-04	.1377-01	.1536	540.5
51	2.4590	18.215	2259.0	.3740-03	.4516-03	.4516-03	.9000	.1308-04	.1580-04	.9835-02	.1372	540.9
51	2.4590	19.555	2260.0	.1578-02	.1907-02	.1907-02	.9000	.5521-04	.6671-04	.4139-01	.3294	543.0
51	2.4590	22.235	2262.0	.2461-04	.2971-04	.2971-04	.9000	.8609-06	.1039-05	.6479-03	.4821-02	540.0
51	2.4590	23.576	2263.0	.4808-03	.5802-03	.5802-03	.9000	.1682-04	.2029-04	.1269-01	.9782-01	537.9
51	5.1380	24.080	2279.0	.3220-02	.3888-02	.3888-02	.9000	.1126-03	.1360-03	.8470-01	.6300	540.6



DATE 23 FEB 80

O'H4B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1140

OH84B 60-0 UPPER RH WING

(R4UJ10)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
55	2.000	7.980	29.95	2.036	435.1	1303.	94.84	.4530-01	2.019	3810.	.1289-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
55	.3505-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
55	1.9880	10.859	2249.0	.1701-01	.2053-01	.2053-01	.9000	.5962-03	.7196-03	.4531	3.367	542.7
55	1.9880	11.983	2250.0	.2501-02	.3016-02	.3016-02	.9000	.8766-04	.1057-03	.6689-01	.5334	539.6
55	1.9880	13.107	2251.0	.1104-02	.1331-02	.1331-02	.9000	.3871-04	.4666-04	.2957-01	.2202	538.6
55	1.9880	14.195	2252.0	.5245-03	.6323-03	.6323-03	.9000	.1838-04	.2216-04	.1405-01	.1426	538.6
55	2.0470	22.330	2255.0	.1925-04	.2318-04	.2318-04	.9000	.6745-06	.8126-06	.5172-03	.3990-02	535.9
55	2.0490	19.941	2254.0	.1429-03	.1722-03	.1722-03	.9000	.5008-05	.6037-05	.3827-02	.4750-01	538.5
55	2.4590	14.195	2256.0	.3203-02	.3861-02	.3861-02	.9000	.1123-03	.1353-03	.8571-01	.9571	539.1
55	2.4590	15.535	2257.0	.2537-02	.3058-02	.3058-02	.9000	.8891-04	.1072-03	.6790-01	.5617	539.0
55	2.4590	16.875	2258.0	.6592-03	.7948-03	.7948-03	.9000	.2310-04	.2786-04	.1763-01	.1969	539.4
55	2.4590	18.215	2259.0	.4250-03	.5125-03	.5125-03	.9000	.1490-04	.1796-04	.1137-01	.1587	539.5
55	2.4590	19.555	2260.0	.1725-02	.2081-02	.2081-02	.9000	.6047-04	.7295-04	.4605-01	.3669	541.2
55	2.4590	23.576	2263.0	.5295-03	.6379-03	.6379-03	.9000	.1856-04	.2236-04	.1423-01	.1098	535.8
55	5.1380	24.080	2279.0	.3714-02	.4480-02	.4480-02	.9000	.1302-03	.1570-03	.9922-01	.7381	540.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1141

OH84B 60-0 UPPER RH WING

(R4UJ11)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -4.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
165	2.002	7.980	34.98	-4.052	435.0	1302.	94.76	.4529-01	2.019	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
165	.3504-01	.2869-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
165	1.9880	10.859	2249.0	.1222-01	.1478-01	.1478-01	.9000	.4282-03	.5178-03	.3222	2.387	549.1
165	1.9880	11.983	2250.0	.2003-02	.2420-02	.2420-02	.9000	.7020-04	.8480-04	.5308-01	.4220	545.5
165	1.9880	13.107	2251.0	.4600-03	.5556-03	.5556-03	.9000	.1612-04	.1947-04	.1219-01	.9049-01	545.2
165	1.9880	14.195	2252.0	.1520-05	.1835-05	.1836-05	.9000	.5326-07	.6433-07	.4026-04	.4073-03	545.7
165	2.4590	14.195	2256.0	.2824-02	.3412-02	.3412-02	.9000	.9895-04	.1196-03	.7471-01	.8310	546.7
165	2.4590	15.535	2257.0	.1767-02	.2136-02	.2136-02	.9000	.6194-04	.7485-04	.4672-01	.3849	547.3
165	2.4590	19.555	2260.0	.1285-02	.1555-02	.1555-02	.9000	.4501-04	.5449-04	.3369-01	.2668	553.2
165	2.4590	20.895	2261.0	.3251-03	.3933-03	.3933-03	.9000	.1139-04	.1378-04	.8549-02	.7591-01	551.2
165	2.4590	22.235	2262.0	.9105-04	.1101-03	.1101-03	.9000	.3190-05	.3858-05	.2400-02	.1777-01	549.5
165	2.4590	23.576	2263.0	.2870-03	.3468-03	.3468-03	.9000	.1006-04	.1215-04	.7595-02	.5827-01	546.5
165	5.1380	24.080	2279.0	.7637-02	.9257-02	.9257-02	.9000	.2676-03	.3244-03	.1991	1.469	557.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1142

OH84B 60-0 UPPER RH WING

(R4UJ11)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
108	2.984	7.990	34.98	-4.050	670.1	1328.	96.43	.6920-01	3.092	3846.	.1937-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
108	.4352-01	.2346-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
108	1.9880	10.859	2249.0	.1118-01	.1346-01	.1346-01	.9000	.4864-03	.5858-03	.3806	2.824	545.3
108	1.9880	11.983	2250.0	.1753-02	.2109-02	.2109-02	.9000	.7628-04	.9180-04	.5990-01	.4770	542.3
108	1.9880	13.107	2251.0	.4068-03	.4895-03	.4895-03	.9000	.1770-04	.2130-04	.1391-01	.1034	542.0
108	1.9880	14.195	2252.0	.5510-04	.6631-04	.6631-04	.9000	.2398-05	.2886-05	.1882-02	.1908-01	542.6
108	2.0470	22.330	2255.0	.2456-03	.2957-03	.2957-03	.9000	.1069-04	.1287-04	.8373-02	.6432-01	544.3
108	2.0490	19.941	2254.0	.1168-03	.1407-03	.1407-03	.9000	.5084-05	.6124-05	.3974-02	.4913-01	546.1
108	2.4590	14.195	2256.0	.2229-02	.2683-02	.2683-02	.9000	.9702-04	.1168-03	.7616-01	.8490	542.7
108	2.4590	15.535	2257.0	.2011-02	.2421-02	.2421-02	.9000	.8752-04	.1054-03	.6859-01	.5660	544.0
108	2.4590	19.555	2260.0	.2319-02	.2796-02	.2796-02	.9000	.1009-03	.1217-03	.7844-01	.6222	550.3
108	2.4590	20.895	2261.0	.3065-03	.3694-03	.3694-03	.9000	.1334-04	.1608-04	.1041-01	.9255-01	547.7
108	2.4590	22.235	2262.0	.4979-03	.5999-03	.5999-03	.9000	.2167-04	.2611-04	.1692-01	.1255	546.7
108	2.4590	23.576	2263.0	.1038-02	.1249-02	.1249-02	.9000	.4516-04	.5437-04	.3537-01	.2717	544.4
108	5.1380	24.080	2279.0	.1192-01	.1438-01	.1438-01	.9000	.5188-03	.6259-03	.4023	2.975	552.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1143

OH84B 60-0 UPPER RH WING

(R4UJ11)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -4.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
142	3.684	8.000	35.01	-4.001	853.7	1353.	98.02	.8745-01	3.918	3883.	.2408-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
142	.4914-01	.2108-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
142	1.9880	10.859	2249.0	.1148-01	.1380-01	.1380-01	.9000	.5640-03	.6783-03	.4529	3.353	549.7
142	1.9880	11.983	2250.0	.1537-02	.1847-02	.1847-02	.9000	.7553-04	.9076-04	.6287-01	.4836	546.8
142	1.9880	13.107	2251.0	.4071-03	.4892-03	.4892-03	.9000	.2000-04	.2404-04	.1612-01	.1195	546.9
142	2.0470	22.330	2255.0	.2190-03	.2635-03	.2635-03	.9000	.1076-04	.1295-04	.8625-02	.6601-01	551.3
142	2.0490	19.941	2254.0	.2092-03	.2518-03	.2518-03	.9000	.1028-04	.1237-04	.8214-02	.1012	553.6
142	2.4590	14.195	2256.0	.2210-02	.2656-02	.2656-02	.9000	.1086-03	.1305-03	.8736-01	.9710	548.2
142	2.4590	15.535	2257.0	.2292-02	.2757-02	.2757-02	.9000	.1126-03	.1355-03	.9037-01	.7433	550.4
142	2.4590	19.555	2260.0	.3628-02	.4373-02	.4373-02	.9000	.1783-03	.2149-03	.1415	1.118	558.8
142	2.4590	20.895	2261.0	.5125-03	.6173-03	.6173-03	.9000	.2519-04	.3034-04	.2008-01	.1779	555.5
142	2.4590	22.235	2262.0	.3900-03	.4695-03	.4695-03	.9000	.1917-04	.2307-04	.1530-01	.1131	554.2
142	2.4590	23.576	2263.0	.9522-03	.1146-02	.1146-02	.9000	.4680-04	.5630-04	.3750-01	.2871	551.2
142	5.1380	24.080	2279.0	.1524-01	.1838-01	.1838-01	.9000	.7489-03	.9034-03	.5923	4.359	561.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1144

OH84B 60-0 UPPER RH WING

(R4UJ12)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
162	2.007	7.980	35.00	-1.998	435.0	1300.	94.62	.4529-01	2.019	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
162	.3503-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
162	1.9880	10.859	2249.0	.1345-01	.1625-01	.1625-01	.9000	.4711-03	.5692-03	.3551	2.635	545.8
162	1.9880	11.983	2250.0	.1927-02	.2326-02	.2326-02	.9000	.6749-04	.8149-04	.5107-01	.4066	543.0
162	1.9880	13.107	2251.0	.6721-03	.8114-03	.8114-03	.9000	.2354-04	.2843-04	.1782-01	.1324	542.8
162	1.9880	14.195	2252.0	.2358-03	.2847-03	.2847-03	.9000	.8260-05	.9974-05	.6247-02	.6328-01	543.3
162	2.0490	19.941	2254.0	.1141-03	.1379-03	.1379-03	.9000	.3998-05	.4832-05	.3011-02	.3722-01	546.6
162	2.4590	14.195	2256.0	.2650-02	.3200-02	.3200-02	.9000	.9283-04	.1121-03	.7023-01	.7826	543.2
162	2.4590	15.535	2257.0	.2165-02	.2615-02	.2615-02	.9000	.7586-04	.9163-04	.5730-01	.4727	544.4
162	2.4590	16.875	2258.0	.5514-04	.6662-04	.6662-04	.9000	.1932-05	.2334-05	.1457-02	.1622-01	545.3
162	2.4590	18.215	2259.0	.3639-04	.4398-04	.4398-04	.9000	.1275-05	.1541-05	.9600-03	.1335-01	546.7
162	2.4590	19.555	2260.0	.1688-02	.2042-02	.2042-02	.9000	.5914-04	.7154-04	.4432-01	.3516	550.1
162	2.4590	22.235	2262.0	.3029-04	.3661-04	.3661-04	.9000	.1061-05	.1283-05	.7987-03	.5923-02	547.0
162	2.4590	23.576	2263.0	.1912-03	.2309-03	.2309-03	.9000	.6699-05	.8091-05	.5060-02	.3887-01	544.3
162	5.1380	24.080	2279.0	.7060-02	.8548-02	.8548-02	.9000	.2473-03	.2994-03	.1848	1.366	552.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1145

OH84B 60-0 UPPER RH WING

(R4UJ12)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -2.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
105	3.010	7.990	35.02	-1.985	670.5	1321.	95.92	.6924-01	3.094	3936.	.1948-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
105	.4349-01	.2338-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
105	1.9880	10.859	2249.0	.1286-01	.1551-01	.1551-01	.9000	.5593-03	.6744-03	.4329	3.210	546.7
105	1.9880	11.983	2250.0	.1896-02	.2285-02	.2285-02	.9000	.8248-04	.9938-04	.6408-01	.5099	543.8
105	1.9880	13.107	2251.0	.5481-03	.6603-03	.6603-03	.9000	.2384-04	.2872-04	.1853-01	.1376	543.4
105	1.9880	14.195	2252.0	.1293-03	.1558-03	.1558-03	.9000	.5625-05	.6778-05	.4369-02	.4424-01	544.1
105	2.0490	19.941	2254.0	.2278-03	.2747-03	.2747-03	.9000	.9906-05	.1195-04	.7662-02	.9468-01	547.2
105	2.4590	14.195	2256.0	.2515-02	.3030-02	.3030-02	.9000	.1094-03	.1318-03	.8496-01	.9465	543.8
105	2.4590	15.535	2257.0	.2555-02	.3079-02	.3079-02	.9000	.1111-03	.1339-03	.8614-01	.7103	545.4
105	2.4590	16.875	2258.0	.1322-03	.1594-03	.1594-03	.9000	.5750-05	.6932-05	.4455-02	.4958-01	545.9
105	2.4590	18.215	2259.0	.5134-04	.6190-04	.6190-04	.9000	.2233-05	.2692-05	.1728-02	.2404-01	546.6
105	2.4590	19.555	2260.0	.2513-02	.3034-02	.3034-02	.9000	.1093-03	.1319-03	.8412-01	.6669	551.1
105	2.4590	23.576	2263.0	.3482-03	.4196-03	.4196-03	.9000	.1515-04	.1825-04	.1176-01	.9033-01	544.3
105	5.1380	24.080	2279.0	.1286-01	.1552-01	.1552-01	.9000	.5595-03	.6752-03	.4313	3.194	549.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1146

OH84B 60-0 UPPER RH WING

(R4UJ12)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB*SEC /FT2
139	3.682	8.000	35.03	-1.973	853.3	1353.	98.02	.8741-01	3.916	3883.	.2407-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
139	.4913-01	.2109-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF TAW/TO R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
139	1.9880	10.859	2249.0	.1349-01	.1624-01	.1624-01	.9000	.6629-03	.7978-03	.5304	3.922	552.5
139	1.9880	11.983	2250.0	.1888-02	.2270-02	.2270-02	.9000	.9276-04	.1115-03	.7457-01	.5919	548.8
139	1.9880	13.107	2251.0	.5839-03	.7020-03	.7020-03	.9000	.2869-04	.3449-04	.2306-01	.1709	548.7
139	1.9880	14.195	2252.0	.1336-03	.1607-03	.1607-03	.9000	.6565-05	.7896-05	.5270-02	.5321-01	549.9
139	2.0470	22.330	2255.0	.6657-04	.8012-04	.8012-04	.9000	.3271-05	.3936-05	.2616-02	.2001-01	552.8
139	2.0490	19.941	2254.0	.2969-03	.3575-03	.3575-03	.9000	.1459-04	.1756-04	.1163-01	.1431	555.4
139	2.4590	14.195	2256.0	.2807-02	.3375-02	.3375-02	.9000	.1379-03	.1658-03	.1108	1.230	549.5
139	2.4590	15.535	2257.0	.2961-02	.3564-02	.3564-02	.9000	.1455-03	.1751-03	.1165	.9569	552.3
139	2.4590	16.875	2258.0	.6906-04	.8312-04	.8312-04	.9000	.3393-05	.4084-05	.2713-02	.3008-01	553.1
139	2.4590	18.215	2259.0	.4956-04	.5954-04	.5954-04	.9000	.2435-05	.2925-05	.1965-02	.2734-01	545.5
139	2.4590	19.555	2260.0	.3959-02	.4774-02	.4774-02	.9000	.1945-03	.2346-03	.1540	1.215	560.7
139	2.4590	22.235	2262.0	.1510-03	.1819-03	.1819-03	.9000	.7418-05	.8935-05	.5911-02	.4364-01	555.8
139	2.4590	23.576	2263.0	.7198-03	.8664-03	.8664-03	.9000	.3537-04	.4257-04	.2829-01	.2164	552.8
139	5.1380	24.080	2279.0	.1694-01	.2045-01	.2045-01	.9000	.8323-03	.1005-02	.6553	4.814	565.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1147

OH84B 60-0 UPPER RH WING

(R4UJ13)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
159	2.024	7.980	35.01	-.9963	436.7	1296.	94.33	.4547-01	2.027	3799.	.1301-02	.7590-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
159	.3508-01	.2856-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
159	1.9880	10.859	2249.0	.1391-01	.1680-01	.1680-01	.9000	.4879-03	.5893-03	.3675	2.731	542.5
159	1.9880	11.983	2250.0	.1924-02	.2322-02	.2322-02	.9000	.6749-04	.8146-04	.5099-01	.4085	540.2
159	1.9880	13.107	2251.0	.7253-03	.8754-03	.8754-03	.9000	.2545-04	.3071-04	.1923-01	.1431	540.0
159	1.9880	14.195	2252.0	.2995-03	.3615-03	.3615-03	.9000	.1051-04	.1268-04	.7936-02	.8051-01	540.3
159	2.0470	22.330	2255.0	.6815-04	.8227-04	.8227-04	.9000	.2391-05	.2886-05	.1805-02	.1389-01	540.6
159	2.0490	19.941	2254.0	.2013-03	.2431-03	.2431-03	.9000	.7062-05	.8528-05	.5321-02	.6593-01	542.1
159	2.4590	14.195	2256.0	.2586-02	.3120-02	.3120-02	.9000	.9071-04	.1095-03	.6856-01	.7654	539.8
159	2.4590	15.535	2257.0	.2286-02	.2760-02	.2760-02	.9000	.8020-04	.9682-04	.6055-01	.5004	540.8
159	2.4590	16.875	2258.0	.3295-03	.3978-03	.3978-03	.9000	.1156-04	.1396-04	.8718-02	.9724-01	541.5
159	2.4590	18.215	2259.0	.2842-03	.3433-03	.3433-03	.9000	.9972-05	.1204-04	.7513-02	.1047	542.2
159	2.4590	19.555	2260.0	.2004-02	.2422-02	.2422-02	.9000	.7032-04	.8499-04	.5280-01	.4199	544.9
159	2.4590	22.235	2262.0	.2888-03	.3483-03	.3488-03	.9000	.1013-04	.1224-04	.7632-02	.5672-01	542.4
159	2.4590	23.576	2263.0	.4479-03	.5407-03	.5407-03	.9000	.1571-04	.1897-04	.1186-01	.9126-01	540.9
159	5.1380	24.080	2279.0	.7139-02	.8632-02	.8632-02	.9000	.2505-03	.3028-03	.1877	1.392	546.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1148

OH84B 60-0 UPPER RH WING

(R4UJ13)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
102	3.006	7.990	35.02	-1.9887	672.7	1325.	96.21	.6947-01	3.104	3842.	.1949-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
102	.4359-01	.2339-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
102	1.9880	10.859	2249.0	.1377-01	.1661-01	.1661-01	.9000	.6003-03	.7240-03	.4654	3.447	549.3
102	1.9880	11.983	2250.0	.1984-02	.2391-02	.2391-02	.9000	.8647-04	.1042-03	.6728-01	.5346	546.7
102	1.9880	13.107	2251.0	.5875-03	.7081-03	.7081-03	.9000	.2561-04	.3086-04	.1993-01	.1478	546.5
102	1.9880	14.195	2252.0	.1050-03	.1266-03	.1266-03	.9000	.4577-05	.5517-05	.3557-02	.3596-01	547.4
102	2.0470	22.330	2255.0	.8818-05	.1063-04	.1063-04	.9000	.3843-06	.4634-06	.2983-03	.2286-02	548.6
102	2.0490	19.941	2254.0	.3508-03	.4233-03	.4233-03	.9000	.1529-04	.1845-04	.1183-01	.1459	550.9
102	2.4590	14.195	2256.0	.2628-02	.3167-02	.3167-02	.9000	.1145-03	.1381-03	.8907-01	.9906	547.1
102	2.4590	15.535	2257.0	.2715-02	.3274-02	.3274-02	.9000	.1183-03	.1427-03	.9180-01	.7556	548.9
102	2.4590	16.875	2258.0	.2578-03	.3110-03	.3110-03	.9000	.1124-04	.1355-04	.8711-02	.9676-01	549.6
102	2.4590	18.215	2259.0	.1895-03	.2286-03	.2286-03	.9000	.8258-05	.9962-05	.6395-02	.8877-01	550.3
102	2.4590	19.555	2260.0	.2669-02	.3224-02	.3224-02	.9000	.1164-03	.1405-03	.8961-01	.7092	554.5
102	2.4590	22.235	2262.0	.7079-04	.8539-04	.8539-04	.9000	.3086-05	.3722-05	.2390-02	.1770-01	550.0
102	2.4590	23.576	2263.0	.5902-03	.7114-03	.7114-03	.9000	.2572-04	.3101-04	.1999-01	.1533	547.5
102	5.1380	24.080	2279.0	.1182-01	.1425-01	.1425-01	.9000	.5150-03	.6212-03	.3991	2.955	549.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1149

OH84B 60-0 UPPER RH WING

(R4UJ13)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
136	3.699	8.000	35.06	-9.697	856.1	1352.	97.95	.8769-01	3.929	3881.	.2416-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
136	.4921-01	.2104-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
136	1.9880	10.859	2249.0	.1372-01	.1651-01	.1651-01	.9000	.6749-03	.8122-03	.5398	3.992	552.0
136	1.9880	11.983	2250.0	.1885-02	.2266-02	.2266-02	.9000	.9276-04	.1115-03	.7450-01	.5914	548.5
136	1.9880	13.107	2251.0	.5347-03	.6428-03	.6428-03	.9000	.2631-04	.3163-04	.2114-01	.1567	548.2
136	1.9880	14.195	2252.0	.7173-05	.8626-05	.8626-05	.9000	.3530-06	.4245-06	.2832-03	.2860-02	549.4
136	2.0470	22.330	2255.0	.4993-04	.6009-04	.6009-04	.9000	.2457-05	.2957-05	.1964-02	.1503-01	552.2
136	2.0490	19.941	2254.0	.3063-03	.3689-03	.3689-03	.9000	.1507-04	.1815-04	.1201-01	.1478	555.0
136	2.4590	14.195	2256.0	.2815-02	.3386-02	.3386-02	.9000	.1385-03	.1666-03	.1111	1.234	549.6
136	2.4590	15.535	2257.0	.2891-02	.3478-02	.3478-02	.9000	.1422-03	.1712-03	.1137	.9348	552.0
136	2.4590	16.875	2258.0	.5158-04	.6208-04	.6208-04	.9000	.2538-05	.3055-05	.2028-02	.2249-01	552.7
136	2.4590	18.215	2259.0	.3080-04	.3700-04	.3700-04	.9000	.1516-05	.1821-05	.1223-02	.1701-01	545.1
136	2.4590	19.555	2260.0	.3837-02	.4628-02	.4628-02	.9000	.1888-03	.2277-03	.1494	1.179	560.4
136	2.4590	20.895	2261.0	.1832-04	.2207-04	.2207-04	.9000	.9012-06	.1086-05	.7163-03	.6342-02	556.9
136	2.4590	22.235	2262.0	.2181-03	.2627-03	.2627-03	.9000	.1073-04	.1293-04	.8548-02	.6312-01	555.2
136	2.4590	23.576	2263.0	.8729-03	.1050-02	.1050-02	.9000	.4295-04	.5169-04	.3434-01	.2627	552.2
136	5.1380	24.080	2279.0	.1704-01	.2056-01	.2056-01	.9000	.8384-03	.1012-02	.6618	4.869	562.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1150

OH84B 60-0 UPPER RH WING

(R40J14)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
14	.5200	7.900	34.96	.2136-02	102.3	1241.	92.02	.1137-01	.4908	3715.	.3335-03	.7405-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
14	.1724-01	.5615-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
14	1.9880	10.859	2249.0	.1565-01	.1903-01	.1903-01	.9000	.2698-03	.3281-03	.1884	1.400	542.5
14	1.9880	11.983	2250.0	.2183-02	.2653-02	.2653-02	.9000	.3763-04	.4573-04	.2634-01	.2100	540.6
14	1.9880	13.107	2251.0	.9447-03	.1148-02	.1148-02	.9000	.1629-04	.1979-04	.1140-01	.8485-01	540.4
14	1.9880	14.195	2252.0	.3324-03	.4040-03	.4040-03	.9000	.5731-05	.6965-05	.4013-02	.4071-01	540.4
14	2.4590	14.195	2256.0	.2756-02	.3349-02	.3349-02	.9000	.4751-04	.5773-04	.3329-01	.3716	540.0
14	2.4590	15.535	2257.0	.1339-02	.1627-02	.1627-02	.9000	.2308-04	.2805-04	.1617-01	.1337	540.1
14	2.4590	20.895	2261.0	.1439-02	.1749-02	.1749-02	.9000	.2480-04	.3015-04	.1735-01	.1548	541.2
14	2.4590	22.235	2262.0	.3582-04	.4352-04	.4352-04	.9000	.6174-06	.7503-06	.4325-03	.3218-02	540.1
14	2.4590	23.576	2263.0	.6537-04	.7941-04	.7941-04	.9000	.1127-05	.1369-05	.7910-03	.6093-02	538.8
14	5.1380	24.080	2279.0	.1534-02	.1865-02	.1865-02	.9000	.2644-04	.3215-04	.1848-01	.1374	541.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1151

OH84B 60-0 UPPER RH WING

(R4UJ14)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
61	2.001	7.980	34.99	.9426-07	435.2	1303.	94.84	.4531-01	2.020	3810.	.1289-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
61	.3505-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
61	1.9880	10.859	2249.0	.1440-01	.1741-01	.1741-01	.9000	.5049-03	.6103-03	.3810	2.823	548.1
61	1.9880	11.983	2250.0	.2050-02	.2476-02	.2476-02	.9000	.7186-04	.8679-04	.5442-01	.4327	545.4
61	1.9880	13.107	2251.0	.7512-03	.9072-03	.9072-03	.9000	.2633-04	.3180-04	.1995-01	.1481	545.0
61	1.9880	14.195	2252.0	.2642-03	.3191-03	.3191-03	.9000	.9263-05	.1119-04	.7013-02	.7096-01	545.5
61	2.0490	19.941	2254.0	.1407-03	.1701-03	.1701-03	.9000	.4931-05	.5961-05	.3717-02	.4590-01	548.8
61	2.4590	14.195	2256.0	.2643-02	.3192-02	.3192-02	.9000	.9265-04	.1119-03	.7018-01	.7812	545.3
61	2.4590	15.535	2257.0	.2417-02	.2920-02	.2920-02	.9000	.8472-04	.1024-03	.6406-01	.5279	546.6
61	2.4590	16.875	2258.0	.3860-03	.4665-03	.4665-03	.9000	.1353-04	.1635-04	.1021-01	.1136	547.8
61	2.4590	18.215	2259.0	.3052-03	.3690-03	.3690-03	.9000	.1070-04	.1293-04	.8060-02	.1119	549.2
61	2.4590	19.555	2260.0	.2095-02	.2536-02	.2536-02	.9000	.7344-04	.8888-04	.5509-01	.4364	552.6
61	2.4590	22.235	2262.0	.3623-03	.4380-03	.4380-03	.9000	.1270-04	.1535-04	.9573-02	.7091-01	548.9
61	2.4590	23.576	2263.0	.6918-03	.8356-03	.8356-03	.9000	.2425-04	.2929-04	.1835-01	.1409	545.9
61	5.1380	24.080	2279.0	.6313-02	.7645-02	.7645-02	.9000	.2213-03	.2680-03	.1654	1.222	555.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1152

OH84B 60-0 UPPER RH WING

(R4UJ14)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
80	3.039	7.990	35.01	-.6938-03	670.1	1312.	95.27	.6920-01	3.092	3823.	.1960-02	.7666-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
80	.4343-01	.2329-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
80	1.9880	10.859	2249.0	.1438-01	.1736-01	.1736-01	.9000	.6245-03	.7539-03	.4772	3.538	547.5
80	1.9880	11.983	2250.0	.2085-02	.2515-02	.2515-02	.9000	.9054-04	.1092-03	.6946-01	.5526	544.4
80	1.9880	13.107	2251.0	.6508-03	.7848-03	.7848-03	.9000	.2826-04	.3409-04	.2170-01	.1611	544.0
80	1.9880	14.195	2252.0	.1848-03	.2230-03	.2230-03	.9000	.8027-05	.9683-05	.6157-02	.6233-01	544.6
80	2.0470	22.330	2255.0	.7854-04	.9475-04	.9475-04	.9000	.3411-05	.4115-05	.2615-02	.2008-01	545.0
80	2.0490	19.941	2254.0	.3573-03	.4314-03	.4314-03	.9000	.1552-04	.1874-04	.1185-01	.1464	547.8
80	2.4590	14.195	2256.0	.2678-02	.3231-02	.3231-02	.9000	.1163-03	.1403-03	.8921-01	.9934	544.7
80	2.4590	15.535	2257.0	.2972-02	.3587-02	.3587-02	.9000	.1291-03	.1558-03	.9879-01	.8142	546.3
80	2.4590	16.875	2258.0	.4474-03	.5400-03	.5400-03	.9000	.1943-04	.2345-04	.1485-01	.1652	547.1
80	2.4590	18.215	2259.0	.3355-03	.4050-03	.4050-03	.9000	.1457-04	.1759-04	.1112-01	.1546	548.2
80	2.4590	19.555	2260.0	.3030-02	.3663-02	.3663-02	.9000	.1316-03	.1591-03	.9992-01	.7916	552.5
80	2.4590	22.235	2262.0	.3381-03	.4082-03	.4082-03	.9000	.1469-04	.1773-04	.1122-01	.8317-01	547.6
80	2.4590	23.576	2263.0	.9687-03	.1169-02	.1169-02	.9000	.4207-04	.5075-04	.3225-01	.2476	545.1
80	5.1380	24.080	2279.0	.8339-02	.1008-01	.1008-01	.9000	.3622-03	.4378-03	.2751	2.034	552.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1153

OH84B 60-0 UPPER RH WING

(R4UJ14)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
133	3.692	8.000	35.03	-.6868-03	854.7	1352.	97.95	.8755-01	3.922	3881.	.2413-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC =.0175	STN NO REF(R) =.2106-01
133	.4917-01	.2106-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
133	1.9880	10.859	2249.0	.1507-01	.1814-01	.1814-01	.9000	.7410-03	.8917-03	.5927	4.384	551.9
133	1.9880	11.983	2250.0	.2077-02	.2497-02	.2497-02	.9000	.1021-03	.1228-03	.8208-01	.6518	548.0
133	1.9880	13.107	2251.0	.5693-03	.6843-03	.6843-03	.9000	.2799-04	.3365-04	.2250-01	.1668	547.7
133	1.9880	14.195	2252.0	.9168-05	.1102-04	.1102-04	.9000	.4508-06	.5420-06	.3619-03	.3655-02	548.9
133	2.0470	22.330	2255.0	.1447-03	.1741-03	.1741-03	.9000	.7113-05	.8559-05	.5692-02	.4356-01	551.5
133	2.0490	19.941	2254.0	.4663-03	.5615-03	.5615-03	.9000	.2293-04	.2761-04	.1828-01	.2251	554.3
133	2.4590	14.195	2256.0	.3094-02	.3720-02	.3720-02	.9000	.1521-03	.1829-03	.1222	1.358	548.6
133	2.4590	15.535	2257.0	.3161-02	.3803-02	.3803-02	.9000	.1554-03	.1870-03	.1245	1.024	550.7
133	2.4590	16.875	2258.0	.1765-03	.2124-03	.2124-03	.9000	.8676-05	.1044-04	.6933-02	.7690-01	552.6
133	2.4590	18.215	2259.0	.1859-03	.2233-03	.2233-03	.9000	.9140-05	.1098-04	.7374-02	.1026	544.9
133	2.4590	19.555	2260.0	.4193-02	.5056-02	.5056-02	.9000	.2061-03	.2486-03	.1632	1.288	560.0
133	2.4590	22.235	2262.0	.2892-03	.3483-03	.3483-03	.9000	.1422-04	.1712-04	.1133-01	.8368-01	554.8
133	2.4590	23.576	2263.0	.1126-02	.1355-02	.1355-02	.9000	.5537-04	.6663-04	.4429-01	.3389	551.8
133	5.1380	24.080	2279.0	.1708-01	.2063-01	.2063-01	.9000	.8400-03	.1014-02	.6610	4.857	564.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1154

OH84B 60-0 UPPER RH WING

(R4UJ15)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
202	.5125	7.900	39.95	-10.04	103.5	1263.	93.66	.1151-01	.5026	3748.	.3316-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
202	.1739-01	.5641-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
202	1.9880	10.859	2249.0	.8199-02	.9915-02	.9915-02	.9000	.1426-03	.1725-03	.1040	.7767	533.3
202	1.9880	11.983	2250.0	.7876-03	.9521-03	.9521-03	.9000	.1370-04	.1656-04	.1001-01	.8014-01	531.9
202	1.9880	13.107	2251.0	.2374-03	.2869-03	.2869-03	.9000	.4128-05	.4991-05	.3017-02	.2254-01	531.9
202	1.9880	14.195	2252.0	.9180-05	.1110-04	.1110-04	.9000	.1597-06	.1930-06	.1167-03	.1189-02	531.8
202	2.0470	22.330	2255.0	.6077-04	.7344-04	.7344-04	.9000	.1057-05	.1277-05	.7736-03	.5983-02	530.7
202	2.0490	19.941	2254.0	.4351-04	.5260-04	.5260-04	.9000	.7568-06	.9148-06	.5532-03	.6890-02	531.7
202	2.4590	14.195	2256.0	.1245-02	.1505-02	.1505-02	.9000	.2166-04	.2618-04	.1584-01	.1776	531.5
202	2.4590	15.535	2257.0	.4288-03	.5183-03	.5183-03	.9000	.7458-05	.9015-05	.5453-02	.4528-01	531.5
202	2.4590	19.555	2260.0	.3144-03	.3802-03	.3802-03	.9000	.5468-05	.6612-05	.3992-02	.3194-01	532.7
202	2.4590	20.895	2261.0	.2303-02	.2785-02	.2785-02	.9000	.4006-04	.4844-04	.2925-01	.2622	532.4
202	2.4590	22.235	2262.0	.6407-03	.7746-03	.7746-03	.9000	.1114-04	.1347-04	.8142-02	.6083-01	532.1
202	2.4590	23.576	2263.0	.3082-03	.3725-03	.3725-03	.9000	.5360-05	.6478-05	.3920-02	.3031-01	531.3
202	5.1380	24.080	2279.0	.3383-02	.4092-02	.4092-02	.9000	.5883-04	.7118-04	.4283-01	.3196	534.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1155

OH84B 60-0 UPPER RH WING

(R4UJ15)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
189	1.002	7.940	39.96	-10.05	203.7	1257.	92.34	.2191-01	.9670	3740.	.6404-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
189	.2410-01	.4057-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
189	1.9880	10.859	2249.0	.8105-02	.9811-02	.9811-02	.9000	.1954-03	.2365-03	.1412	1.053	534.2
189	1.9880	11.983	2250.0	.1118-02	.1353-02	.1353-02	.9000	.2696-04	.3262-04	.1952-01	.1562	532.6
189	1.9880	13.107	2251.0	.1406-03	.1701-03	.1701-03	.9000	.3389-05	.4100-05	.2455-02	.1834-01	532.4
189	2.0470	22.330	2255.0	.2936-03	.3551-03	.3551-03	.9000	.7078-05	.8560-05	.5138-02	.3974-01	530.7
189	2.4590	14.195	2256.0	.1608-02	.1946-02	.1946-02	.9000	.3876-04	.4690-04	.2806-01	.3143	532.8
189	2.4590	15.535	2257.0	.5603-03	.6779-03	.6779-03	.9000	.1351-04	.1634-04	.9778-02	.8115-01	532.6
189	2.4590	19.555	2260.0	.1121-02	.1357-02	.1357-02	.9000	.2703-04	.3272-04	.1955-01	.1564	533.4
189	2.4590	20.895	2261.0	.2303-03	.2786-03	.2786-03	.9000	.5550-05	.6715-05	.4020-02	.3604-01	532.3
189	2.4590	22.235	2262.0	.6784-03	.8206-03	.8206-03	.9000	.1635-04	.1978-04	.1186-01	.8859-01	531.7
189	2.4590	23.576	2263.0	.1534-02	.1856-02	.1856-02	.9000	.3699-04	.4474-04	.2684-01	.2075	531.2
189	5.1380	24.080	2279.0	.2948-02	.3566-02	.3566-02	.9000	.7106-04	.8595-04	.5155-01	.3853	531.2



DATE 23 FEB 80

OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1156

OH848 60-0 UPPER RH WING

(R4UJ15)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
 BOFLAP = .0000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
171	2.002	7.980	39.98	-10.09	434.9	1302.	94.76	.4528-01	2.018	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
171	.3504-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
171	1.9880	10.859	2249.0	.7811-02	.9442-02	.9442-02	.9000	.2737-03	.3308-03	.2062	1.528	548.3
171	1.9880	11.983	2250.0	.7131-03	.8616-03	.8616-03	.9000	.2499-04	.3019-04	.1887-01	.1499	546.5
171	2.0470	22.330	2255.0	.3471-03	.4195-03	.4195-03	.9000	.1216-04	.1470-04	.9181-02	.7043-01	546.8
171	2.0490	19.941	2254.0	.3768-03	.4557-03	.4557-03	.9000	.1320-04	.1597-04	.9934-02	.1226	549.4
171	2.4590	14.195	2256.0	.1276-02	.1542-02	.1542-02	.9000	.4471-04	.5404-04	.3371-01	.3748	547.7
171	2.4590	15.535	2257.0	.7440-03	.8995-03	.8995-03	.9000	.2607-04	.3152-04	.1964-01	.1617	548.4
171	2.4590	19.555	2260.0	.2094-02	.2534-02	.2534-02	.9000	.7335-04	.8878-04	.5496-01	.4354	552.5
171	2.4590	20.895	2261.0	.5790-03	.7003-03	.7003-03	.9000	.2029-04	.2454-04	.1524-01	.1354	550.4
171	2.4590	22.235	2262.0	.9810-03	.1186-02	.1186-02	.9000	.3437-04	.4156-04	.2586-01	.1915	549.4
171	2.4590	23.576	2263.0	.9700-03	.1051-02	.1051-02	.9000	.3048-04	.3684-04	.2300-01	.1764	547.3
171	5.1380	24.080	2279.0	.9050-02	.1096-01	.1096-01	.9000	.3171-03	.3840-03	.2370	1.751	554.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1157

OH84B 60-0 UPPER RH WING

(R4UJ15)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
99	2.993	7.990	40.02	-10.10	670.6	1326.	96.29	.6925-01	3.095	3843.	.1941-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
99	.4353-01	.2343-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
99	1.9880	10.859	2249.0	.7786-02	.9386-02	.9386-02	.9000	.3389-03	.4085-03	.2635	1.952	548.2
99	1.9880	11.983	2250.0	.5970-03	.7194-03	.7194-03	.9000	.2599-04	.3131-04	.2026-01	.1610	546.2
99	2.0470	22.330	2255.0	.3670-03	.4429-03	.4429-03	.9000	.1597-04	.1928-04	.1235-01	.9450-01	552.3
99	2.0490	19.941	2254.0	.5960-03	.7197-03	.7197-03	.9000	.2594-04	.3132-04	.2002-01	.2465	554.0
99	2.4590	14.195	2256.0	.1259-02	.1517-02	.1517-02	.9000	.5478-04	.6603-04	.4263-01	.4740	547.5
99	2.4590	15.535	2257.0	.9507-03	.1146-02	.1146-02	.9000	.4138-04	.4990-04	.3214-01	.2645	549.0
99	2.4590	19.555	2260.0	.3998-02	.4833-02	.4833-02	.9000	.1740-03	.2103-03	.1335	1.054	558.4
99	2.4590	20.895	2261.0	.2922-03	.3530-03	.3530-03	.9000	.1272-04	.1537-04	.9787-02	.8669-01	556.2
99	2.4590	22.235	2262.0	.7830-03	.9458-03	.9458-03	.9000	.3408-04	.4117-04	.2625-01	.1938	555.6
99	2.4590	23.576	2263.0	.1002-02	.1209-02	.1209-02	.9000	.4360-04	.5263-04	.3368-01	.2575	553.2
99	5.1360	24.080	2279.0	.1388-01	.1681-01	.1681-01	.9000	.6043-03	.7318-03	.4599	3.380	564.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1158

OH84B 60-0 UPPER RH WING

(R4UJ17)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
199	.4996	7.900	39.96	-3.996	99.13	1248.	92.54	.1102-01	.4813	3726.	.3213-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
199	.1699-01	.5724-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
199	1.9880	10.859	2249.0	.1194-01	.1446-01	.1446-01	.9000	.2028-03	.2456-03	.1454	1.087	530.8
199	1.9880	11.983	2250.0	.1514-02	.1832-02	.1832-02	.9000	.2571-04	.3112-04	.1847-01	.1481	529.4
199	1.9880	13.107	2251.0	.6177-03	.7475-03	.7475-03	.9000	.1049-04	.1270-04	.7541-02	.5643-01	529.0
199	1.9880	14.195	2252.0	.9817-04	.1188-03	.1188-03	.9000	.1667-05	.2018-05	.1199-02	.1224-01	528.6
199	2.0470	22.330	2255.0	.3672-03	.4441-03	.4441-03	.9000	.6238-05	.7543-05	.4498-02	.3486-01	526.5
199	2.4590	14.195	2256.0	.1944-02	.2352-02	.2352-02	.9000	.3301-04	.3995-04	.2373-01	.2664	528.8
199	2.4590	15.535	2257.0	.8933-03	.1081-02	.1081-02	.9000	.1517-04	.1836-04	.1091-01	.9077-01	528.4
199	2.4590	19.555	2260.0	.8208-04	.9929-04	.9929-04	.9000	.1394-05	.1686-05	.1004-02	.8050-02	527.9
199	2.4590	20.895	2261.0	.2312-02	.2796-02	.2796-02	.9000	.3927-04	.4749-04	.2829-01	.2543	527.2
199	2.4590	22.235	2262.0	.5906-03	.7143-03	.7143-03	.9000	.1003-04	.1213-04	.7231-02	.5417-01	526.9
199	2.4590	23.576	2263.0	.3418-04	.4133-04	.4133-04	.9000	.5806-06	.7020-06	.4188-03	.3246-02	526.3
199	5.1380	24.080	2279.0	.4512-03	.5452-03	.5452-03	.9000	.7664-05	.9261-05	.5544-02	.4159-01	524.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1159

OH84B 60-0 UPPER RH WING

(R4UJ17)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
186	X10 6 .9941	7.940	39.96	-3.989	203.8	1264.	92.86	.2192-01	.9674	3751.	.6372-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
186	.2413-01	.4070-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
186	1.9880	10.859	2249.0	.1209-01	.1463-01	.1463-01	.9000	.2918-03	.3532-03	.2123	1.583	536.1
186	1.9880	11.983	2250.0	.1395-02	.1687-02	.1687-02	.9000	.3366-04	.4071-04	.2455-01	.1963	534.2
186	1.9880	13.107	2251.0	.4568-03	.5524-03	.5524-03	.9000	.1102-04	.1333-04	.8045-02	.6005-01	533.8
186	1.9880	14.195	2252.0	.8573-04	.1037-03	.1037-03	.9000	.2069-05	.2502-05	.1510-02	.1537-01	533.7
186	2.0470	22.330	2255.0	.2927-03	.3538-03	.3538-03	.9000	.7063-05	.8538-05	.5167-02	.3994-01	532.1
186	2.0490	19.941	2254.0	.2065-04	.2497-04	.2497-04	.9000	.4983-06	.6026-06	.3639-03	.4529-02	533.3
186	2.4590	14.195	2256.0	.1843-02	.2229-02	.2229-02	.9000	.4448-04	.5380-04	.3246-01	.3634	534.1
186	2.4590	15.535	2257.0	.9283-03	.1123-02	.1123-02	.9000	.2240-04	.2710-04	.1635-01	.1356	533.9
186	2.4590	19.555	2260.0	.1436-02	.1737-02	.1737-02	.9000	.3465-04	.4192-04	.2526-01	.2019	534.9
186	2.4590	20.895	2261.0	.1282-03	.1550-03	.1550-03	.9000	.3094-05	.3741-05	.2258-02	.2023-01	533.6
186	2.4590	22.235	2262.0	.8323-03	.1006-02	.1006-02	.9000	.2009-04	.2429-04	.1468-01	.1096	533.1
186	2.4590	23.576	2263.0	.9385-03	.1134-02	.1134-02	.9000	.2265-04	.2738-04	.1657-01	.1281	532.0
186	5.1380	24.080	2279.0	.2385-02	.2883-02	.2883-02	.9000	.5757-04	.6957-04	.4216-01	.3151	531.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1160

OH84B 60-0 UPPER RH WING

(R4UJ17)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
177	1.998	7.980	39.98	-4.010	434.6	1303.	94.84	.4525-01	2.017	3810.	.1288-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
177	.3503-01	.2872-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
177	1.9880	10.859	2249.0	.1110-01	.1339-01	.1339-01	.9000	.3887-03	.4691-03	.2956	2.197	542.2
177	1.9880	11.983	2250.0	.1299-02	.1567-02	.1567-02	.9000	.4552-04	.5490-04	.3471-01	.2767	540.2
177	1.9880	13.107	2251.0	.3404-03	.4106-03	.4106-03	.9000	.1193-04	.1438-04	.9095-02	.6768-01	540.0
177	1.9890	14.195	2252.0	.2835-04	.3420-04	.3420-04	.9000	.9932-06	.1198-05	.7571-03	.7680-02	540.4
177	2.0470	22.320	2255.0	.2913-03	.3515-03	.3515-03	.9000	.1021-04	.1231-04	.7768-02	.5976-01	541.5
177	2.0490	19.941	2254.0	.3228-03	.3896-03	.3896-03	.9000	.1131-04	.1365-04	.8587-02	.1063	543.2
177	2.4590	14.195	2256.0	.1864-02	.2249-02	.2249-02	.9000	.6531-04	.7877-04	.4979-01	.5557	540.3
177	2.4590	15.535	2257.0	.1792-02	.2162-02	.2162-02	.9000	.6277-04	.7572-04	.4780-01	.3949	541.2
177	2.4590	19.555	2260.0	.2301-02	.2780-02	.2780-02	.9000	.8060-04	.9737-04	.6097-01	.4845	546.3
177	2.4590	22.235	2262.0	.6817-03	.8229-03	.8229-03	.9000	.2388-04	.2883-04	.1813-01	.1347	543.5
177	2.4590	23.576	2263.0	.8458-03	.1020-02	.1020-02	.9000	.2963-04	.3574-04	.2255-01	.1735	541.4
177	5.1380	24.080	2279.0	.9176-02	.1108-01	.1108-01	.9000	.3214-03	.3882-03	.2434	1.806	545.5

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1161

OH84B 60-O UPPER RH WING

(R4UJ17)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
95	2.992	7.990	39.99	-4.021	670.3	1326.	96.29	.6922-01	3.093	3843.	.1940-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
95	.4352-01	.2344-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
95	1.9880	10.859	2249.0	.1075-01	.1294-01	.1294-01	.9000	.4679-03	.5632-03	.3666	2.725	542.1
95	1.9880	11.983	2250.0	.1077-02	.1295-02	.1295-02	.9000	.4686-04	.5637-04	.3683-01	.2937	539.8
95	1.9880	13.107	2251.0	.1846-03	.2220-03	.2220-03	.9000	.8031-05	.9660-05	.6314-02	.4700-01	539.5
95	2.0470	22.330	2255.0	.3255-03	.3918-03	.3918-03	.9000	.1416-04	.1705-04	.1109-01	.8529-01	542.4
95	2.0490	19.941	2254.0	.3826-03	.4606-03	.4606-03	.9000	.1665-04	.2004-04	.1303-01	.1614	543.0
95	2.4590	14.195	2256.0	.1761-02	.2119-02	.2119-02	.9000	.7663-04	.9219-04	.6018-01	.6716	540.3
95	2.4590	15.535	2257.0	.2175-02	.2617-02	.2617-02	.9000	.9463-04	.1139-03	.7422-01	.6132	541.4
95	2.4590	19.555	2260.0	.4396-02	.5298-02	.5298-02	.9000	.1913-03	.2306-03	.1489	1.183	547.4
95	2.4590	22.235	2262.0	.6070-03	.7310-03	.7310-03	.9000	.2641-04	.3181-04	.2063-01	.1532	544.5
95	2.4590	23.576	2263.0	.7201-03	.8669-03	.8669-03	.9000	.3133-04	.3773-04	.2452-01	.1884	543.3
95	5.1380	24.080	2279.0	.1348-01	.1626-01	.1626-01	.9000	.5866-03	.7077-03	.4545	3.364	550.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1162

OH84B 60-0 UPPER RH WING

(R4UJ18)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
196	.5017	7.900	39.96	-1.993	100.6	1257.	93.21	.1118-01	.4886	3739.	.3238-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
196	.1713-01	.5706-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
196	1.9880	10.859	2249.0	.1421-01	.1720-01	.1720-01	.9000	.2435-03	.2948-03	.1758	1.312	534.7
196	1.9880	11.983	2250.0	.2112-02	.2556-02	.2556-02	.9000	.3619-04	.4379-04	.2619-01	.2095	533.0
196	1.9880	13.107	2251.0	.7528-03	.9110-03	.9110-03	.9000	.1290-04	.1561-04	.9340-02	.6976-01	532.7
196	1.9880	14.195	2252.0	.2431-03	.2941-03	.2941-03	.9000	.4165-05	.5039-05	.3016-02	.3071-01	532.6
196	2.0470	22.330	2255.0	.1053-04	.1274-04	.1274-04	.9000	.1805-06	.2183-06	.1310-03	.1013-02	531.0
196	2.4590	14.195	2256.0	.2459-02	.2976-02	.2976-02	.9000	.4214-04	.5099-04	.3052-01	.3420	532.4
196	2.4590	15.535	2257.0	.1266-02	.1532-02	.1532-02	.9000	.2169-04	.2624-04	.1571-01	.1304	532.4
196	2.4590	19.555	2260.0	.9978-04	.1208-03	.1208-03	.9000	.1710-05	.2069-05	.1237-02	.9895-02	533.3
196	2.4590	22.235	2262.0	.3763-03	.4553-03	.4553-03	.9000	.6448-05	.7801-05	.4672-02	.3491-01	532.0
196	2.4590	23.576	2263.0	.1932-03	.2337-03	.2337-03	.9000	.3311-05	.4004-05	.2403-02	.1858-01	530.9
196	5.1380	24.080	2279.0	.8627-03	.1044-02	.1044-02	.9000	.1478-04	.1788-04	.1072-01	.8008-01	531.7

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1163

OH84B 60-O UPPER RH WING

(R4UJ18)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
183	1.005	7.940	39.96	-2.000	205.1	1260.	92.56	.2206-01	.9736	3745.	.6433-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
183	.2420-01	.4049-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
183	1.9880	10.859	2249.0	.1358-01	.1645-01	.1645-01	.9000	.3286-03	.3981-03	.2372	1.767	537.9
183	1.9880	11.983	2250.0	.1829-02	.2215-02	.2215-02	.9000	.4426-04	.5359-04	.3204-01	.2560	535.8
183	1.9880	13.107	2251.0	.5948-03	.7201-03	.7201-03	.9000	.1439-04	.1742-04	.1042-01	.7774-01	535.5
183	1.9880	14.195	2252.0	.2505-03	.3032-03	.3032-03	.9000	.6061-05	.7337-05	.4389-02	.4463-01	535.6
183	2.0470	22.330	2255.0	.1171-03	.1417-03	.1417-03	.9000	.2833-05	.3429-05	.2055-02	.1586-01	534.5
183	2.4590	14.195	2256.0	.2356-02	.2852-02	.2852-02	.9000	.5701-04	.6901-04	.4132-01	.4625	534.9
183	2.4590	15.535	2257.0	.1320-02	.1597-02	.1597-02	.9000	.3193-04	.3865-04	.2313-01	.1917	535.2
183	2.4590	16.875	2258.0	.6616-04	.8010-04	.8010-04	.9000	.1601-05	.1938-05	.1159-02	.1297-01	535.6
183	2.4590	18.215	2259.0	.3774-05	.4568-05	.4568-05	.9000	.9131-07	.1105-06	.6612-04	.9246-03	535.6
183	2.4590	19.555	2260.0	.1553-02	.1881-02	.1881-02	.9000	.3758-04	.4552-04	.2714-01	.2167	537.3
183	2.4590	20.895	2261.0	.3828-04	.4635-04	.4635-04	.9000	.9263-06	.1122-05	.6704-03	.5998-02	536.0
183	2.4590	22.235	2262.0	.4985-03	.6035-03	.6035-03	.9000	.1206-04	.1460-04	.8737-02	.6517-01	535.4
183	2.4590	23.576	2263.0	.6087-03	.7366-03	.7366-03	.9000	.1473-04	.1782-04	.1069-01	.8255-01	533.9
183	5.1380	24.080	2279.0	.1961-02	.2372-02	.2372-02	.9000	.4745-04	.5740-04	.3449-01	.2576	532.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1164

OH84B 60-0 UPPER RH WING

(R4UJ18)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
174	1.998	7.980	39.98	-2.000	435.7	1305.	94.98	.4536-01	2.022	3813.	.1289-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
174	.3508-01	.2871-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
174	1.9880	10.859	2249.0	.1285-01	.1549-01	.1549-01	.9000	.4507-03	.5435-03	.3446	2.564	540.2
174	1.9880	11.983	2250.0	.1654-02	.1993-02	.1993-02	.9000	.5802-04	.6991-04	.4448-01	.3550	538.0
174	1.9980	13.107	2251.0	.4043-03	.4872-03	.4872-03	.9000	.1419-04	.1709-04	.1088-01	.8106-01	537.6
174	1.9880	14.195	2252.0	.1367-03	.1647-03	.1647-03	.9000	.4795-05	.5778-05	.3677-02	.3735-01	537.9
174	2.0470	22.330	2255.0	.1230-03	.1483-03	.1483-03	.9000	.4316-05	.5202-05	.3306-02	.2547-01	538.7
174	2.0490	19.941	2254.0	.3787-03	.4566-03	.4566-03	.9000	.1329-04	.1602-04	.1016-01	.1260	539.8
174	2.4590	14.195	2256.0	.2259-02	.2722-02	.2722-02	.9000	.7924-04	.9549-04	.6076-01	.6789	537.9
174	2.4590	15.535	2257.0	.2304-02	.2777-02	.2777-02	.9000	.8084-04	.9743-04	.6192-01	.5123	538.7
174	2.4590	16.875	2258.0	.3701-04	.4461-04	.4461-04	.9000	.1298-05	.1565-05	.9946-03	.1111-01	538.7
174	2.4590	19.555	2260.0	.2620-02	.3162-02	.3162-02	.9000	.9193-04	.1109-03	.7004-01	.5577	542.7
174	2.4590	20.895	2261.0	.3203-03	.3862-03	.3862-03	.9000	.1124-04	.1355-04	.8585-02	.7664-01	540.6
174	2.4590	22.235	2262.0	.3967-03	.4783-03	.4783-03	.9000	.1392-04	.1678-04	.1064-01	.7915-01	540.3
174	2.4590	23.576	2263.0	.5319-03	.6412-03	.6412-03	.9000	.1866-04	.2250-04	.1429-01	.1101	539.0
174	5.1380	24.080	2279.0	.7995-02	.9645-02	.9645-02	.9000	.2805-03	.3384-03	.2139	1.590	542.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1165

OH84B 60-0 UPPER RH WING

(R40018)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -2.000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
90	3.013	7.990	40.02	-2.028	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
90	.4349-01	.2337-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
90	1.9880	10.859	2249.0	.1308-01	.1580-01	.1580-01	.9000	.5689-03	.6871-03	.4366	3.229	552.3
90	1.9880	11.983	2250.0	.1540-02	.1858-02	.1858-02	.9000	.6697-04	.8082-04	.5156-01	.4091	549.7
90	1.9880	13.107	2251.0	.4063-03	.4904-03	.4904-03	.9000	.1767-04	.2133-04	.1360-01	.1007	549.8
90	1.9880	14.195	2252.0	.3322-04	.4011-04	.4011-04	.9000	.1445-05	.1744-05	.1111-02	.1121-01	551.1
90	2.0470	22.330	2255.0	.9174-04	.1109-03	.1109-03	.9000	.3990-05	.4821-05	.3053-02	.2333-01	554.6
90	2.0490	19.941	2254.0	.4932-03	.5964-03	.5964-03	.9000	.2145-04	.2594-04	.1635-01	.2011	557.2
90	2.4590	14.195	2256.0	.2336-02	.2821-02	.2821-02	.9000	.1016-03	.1227-03	.7808-01	.8665	551.3
90	2.4590	15.535	2257.0	.2907-02	.3512-02	.3512-02	.9000	.1264-03	.1527-03	.9684-01	.7951	553.7
90	2.4590	19.555	2260.0	.4811-02	.5827-02	.5827-02	.9000	.2092-03	.2534-03	.1584	1.249	562.5
90	2.4590	22.235	2262.0	.4013-03	.4853-03	.4853-03	.9000	.1745-04	.2111-04	.1330-01	.9807-01	557.7
90	2.4590	23.576	2263.0	.5617-03	.6787-03	.6787-03	.9000	.2443-04	.2952-04	.1869-01	.1428	554.5
90	5.1380	24.080	2279.0	.1372-01	.1663-01	.1663-01	.9000	.5969-03	.7235-03	.4501	3.307	565.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1166

OH84B 60-0 UPPER RH WING

(R4UJ21)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
193	.5035	7.900	39.99	-1.006	99.91	1248.	92.54	.1110-01	.4851	3726.	.3238-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
193	.1705-01	.5701-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
193	1.9880	10.859	2249.0	.1621-01	.1966-01	.1966-01	.9000	.2764-03	.3352-03	.1967	1.467	536.0
193	1.9880	11.983	2250.0	.2406-02	.2916-02	.2916-02	.9000	.4103-04	.4971-04	.2928-01	.2342	533.8
193	1.9880	13.107	2251.0	.7239-03	.8771-03	.8771-03	.9000	.1234-04	.1496-04	.8816-02	.6582-01	533.5
193	1.9880	14.195	2252.0	.1287-03	.1559-03	.1559-03	.9000	.2195-05	.2659-05	.1568-02	.1596-01	533.3
193	2.4590	14.195	2256.0	.3022-02	.3661-02	.3661-02	.9000	.5152-04	.6243-04	.3680-01	.4121	533.5
193	2.4590	15.535	2257.0	.1441-02	.1746-02	.1746-02	.9000	.2458-04	.2978-04	.1756-01	.1457	533.2
193	2.4590	22.235	2262.0	.1795-03	.2174-03	.2174-03	.9000	.3061-05	.3707-05	.2189-02	.1635-01	532.5
193	5.1380	24.080	2279.0	.7429-03	.8995-03	.8995-03	.9000	.1267-04	.1534-04	.9077-02	.6785-01	531.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1167

OH84B 60-0 UPPER RH WING

(R40J21)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
180	1.002	7.940	39.98	-1.002	205.1	1263.	92.78	.2206-01	.9736	3749.	.6418-03	.7466-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
180	.2421-01	.4055-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
180	1.9880	10.859	2249.0	.1482-01	.1797-01	.1797-01	.9000	.3589-03	.4349-03	.2591	1.928	540.6
180	1.9880	11.983	2250.0	.2009-02	.2434-02	.2434-02	.9000	.4864-04	.5891-04	.3522-01	.2810	538.6
180	1.9880	13.107	2251.0	.4015-03	.4863-03	.4863-03	.9000	.9720-05	.1177-04	.7040-02	.5243-01	538.3
180	1.9880	14.195	2252.0	.2945-03	.3567-03	.3567-03	.9000	.7129-05	.8635-05	.5163-02	.5243-01	538.5
180	2.0470	22.330	2255.0	.2530-03	.3063-03	.3063-03	.9000	.6125-05	.7416-05	.4444-02	.3426-01	537.2
180	2.0490	19.941	2254.0	.5132-04	.6216-04	.6216-04	.9000	.1242-05	.1505-05	.8998-03	.1117-01	538.4
180	2.4590	14.195	2256.0	.2472-02	.2993-02	.2993-02	.9000	.5983-04	.7246-04	.4335-01	.4844	538.1
180	2.4590	15.535	2257.0	.1501-02	.1818-02	.1818-02	.9000	.3634-04	.4401-04	.2633-01	.2179	538.2
180	2.4590	16.875	2258.0	.1897-03	.2298-03	.2298-03	.9000	.4593-05	.5563-05	.3327-02	.3716-01	538.4
180	2.4590	18.215	2259.0	.1171-05	.1418-05	.1418-05	.9000	.2835-07	.3434-07	.2054-04	.2868-03	538.3
180	2.4590	19.555	2260.0	.1565-02	.1896-02	.1896-02	.9000	.3789-04	.4591-04	.2738-01	.2183	539.9
180	2.4590	20.895	2261.0	.7283-03	.8822-03	.8822-03	.9000	.1763-04	.2136-04	.1277-01	.1141	538.6
180	2.4590	22.235	2262.0	.6410-03	.7762-03	.7762-03	.9000	.1552-04	.1879-04	.1124-01	.8374-01	538.1
180	2.4590	23.576	2263.0	.8123-03	.9835-03	.9835-03	.9000	.1966-04	.2381-04	.1427-01	.1100	537.2
180	5.1380	24.080	2279.0	.1802-02	.2181-02	.2181-02	.9000	.4361-04	.5281-04	.3164-01	.2358	537.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1168

OH84B 60-0 UPPER RH WING

(R4UJ21)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
168	2.006	7.980	40.02	-1.016	435.8	1302.	94.76	.4537-01	2.023	3808.	.1292-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
168	.3507-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
168	1.9880	10.859	2249.0	.1430-01	.1729-01	.1729-01	.9000	.5017-03	.6065-03	.3778	2.799	548.6
168	1.9880	11.983	2250.0	.1867-02	.2255-02	.2255-02	.9000	.6547-04	.7910-04	.4946-01	.3931	546.2
168	1.9880	13.107	2251.0	.5114-03	.6177-03	.6177-03	.9000	.1794-04	.2167-04	.1356-01	.1006	545.9
168	1.9880	14.195	2252.0	.1207-03	.1459-03	.1459-03	.9000	.4235-05	.5116-05	.3199-02	.3236-01	546.3
168	2.0470	22.330	2255.0	.2136-04	.2579-04	.2579-04	.9000	.7491-06	.9047-06	.5668-03	.4352-02	545.0
168	2.0490	19.941	2254.0	.3477-03	.4202-03	.4202-03	.9000	.1219-04	.1474-04	.9197-02	.1136	547.5
168	2.4590	14.195	2256.0	.2558-02	.3092-02	.3092-02	.9000	.8973-04	.1084-03	.6769-01	.7528	547.3
168	2.4590	15.535	2257.0	.2602-02	.3146-02	.3146-02	.9000	.9128-04	.1103-03	.6879-01	.5664	548.1
168	2.4590	16.875	2258.0	.1260-03	.1523-03	.1523-03	.9000	.4419-05	.5342-05	.3332-02	.3704-01	547.8
168	2.4590	18.215	2259.0	.4632-04	.5599-04	.5599-04	.9000	.1625-05	.1964-05	.1224-02	.1702-01	548.0
168	2.4590	19.555	2260.0	.2562-02	.3100-02	.3100-02	.9000	.8988-04	.1087-03	.6747-01	.5350	550.9
168	2.4590	22.235	2262.0	.4289-03	.5183-03	.5183-03	.9000	.1504-04	.1818-04	.1135-01	.8419-01	547.0
168	2.4590	23.576	2263.0	.3793-03	.4581-03	.4581-03	.9000	.1330-04	.1607-04	.1006-01	.7725-01	545.3
168	5.1380	24.080	2279.0	.1025-01	.1240-01	.1240-01	.9000	.3594-03	.4349-03	.2697	1.995	551.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1169

OH84B 60-0 UPPER RH WING

(R4UJ21)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
86	3.010	7.990	40.08	-1.034	669.1	1319.	95.78	.6910-01	3.088	3933.	.1947-02	.7707-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO. REF(R) =.0175
86	.4344-01	.2338-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
86	1.9880	10.859	2249.0	.1316-01	.1589-01	.1589-01	.9000	.5716-03	.6900-03	.4392	3.251	550.3
86	1.9880	11.983	2250.0	.1501-02	.1810-02	.1810-02	.9000	.6518-04	.7863-04	.5026-01	.3992	547.6
86	1.9880	13.107	2251.0	.3466-03	.4180-03	.4180-03	.9000	.1505-04	.1816-04	.1161-01	.8606-01	547.5
86	2.0470	22.330	2255.0	.1416-03	.1710-03	.1710-03	.9000	.6152-05	.7429-05	.4722-02	.3614-01	551.2
86	2.0490	19.941	2254.0	.4204-03	.5080-03	.5080-03	.9000	.1826-04	.2207-04	.1397-01	.1720	553.9
86	2.4590	14.195	2256.0	.2267-02	.2736-02	.2736-02	.9000	.9848-04	.1189-03	.7578-01	.8419	549.2
86	2.4590	15.535	2257.0	.2940-02	.3549-02	.3549-02	.9000	.1277-03	.1542-03	.9799-01	.8056	551.2
86	2.4590	19.555	2260.0	.4971-02	.6016-02	.6016-02	.9000	.2159-03	.2613-03	.1640	1.294	559.4
86	2.4590	20.895	2261.0	.2496-04	.3018-04	.3018-04	.9000	.1084-05	.1311-05	.8272-03	.7328-02	555.8
86	2.4590	22.235	2262.0	.3540-03	.4279-03	.4279-03	.9000	.1538-04	.1858-04	.1175-01	.8683-01	554.4
86	2.4590	23.576	2263.0	.6073-03	.7333-03	.7333-03	.9000	.2638-04	.3185-04	.2024-01	.1550	551.2
86	5.1380	24.080	2279.0	.1424-01	.1725-01	.1725-01	.9000	.6186-03	.7491-03	.4683	3.447	561.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1170

OH84B 60-0 UPPER RH WING

(R4UJ22)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
17	.5042	7.900	40.02	-.3159-02	99.80	1246.	92.40	.1109-01	.4846	3723.	.3240-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
17	.1704-01	.5699-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
17	1.9980	10.859	2249.0	.1564-01	.1900-01	.1900-01	.9000	.2665-03	.3238-03	.1877	1.395	541.5
17	1.9880	11.983	2250.0	.2124-02	.2579-02	.2579-02	.9000	.3619-04	.4394-04	.2556-01	.2038	539.5
17	1.9880	13.107	2251.0	.8552-03	.1038-02	.1038-02	.9000	.1457-04	.1769-04	.1029-01	.7663-01	539.2
17	1.9680	14.195	2252.0	.2186-03	.2654-03	.2654-03	.9000	.3724-05	.4521-05	.2632-02	.2672-01	539.1
17	2.0470	22.330	2255.0	.1267-03	.1537-03	.1537-03	.9000	.2158-05	.2619-05	.1528-02	.1178-01	537.5
17	2.4590	14.195	2256.0	.2593-02	.3147-02	.3147-02	.9000	.4417-04	.5362-04	.3124-01	.3489	538.5
17	2.4590	15.535	2257.0	.1277-02	.1550-02	.1550-02	.9000	.2176-04	.2641-04	.1538-01	.1273	538.5
17	2.4590	22.235	2262.0	.5214-03	.6329-03	.6329-03	.9000	.8883-05	.1078-04	.6277-02	.4674-01	539.0
17	2.4590	23.576	2263.0	.3395-04	.4119-04	.4119-04	.9000	.5784-06	.7019-06	.4097-03	.3158-02	537.3
17	5.1380	24.080	2279.0	.5091-03	.6181-03	.6181-03	.9000	.8673-05	.1053-04	.6124-02	.4558-01	539.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1171

OH84B 60-0 UPPER RH WING

(R40J22)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
33	1.016	7.940	40.01	.1050-02	206.6	1257.	92.34	.2223-01	.9808	3740.	.6496-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
33	.2428-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
33	1.9880	10.859	2249.0	.1573-01	.1906-01	.1906-01	.9000	.3818-03	.4627-03	.2743	2.043	538.1
33	1.9880	11.983	2250.0	.2080-02	.2519-02	.2519-02	.9000	.5049-04	.6116-04	.3639-01	.2908	535.9
33	1.9880	13.107	2251.0	.7172-03	.8685-03	.8685-03	.9000	.1741-04	.2108-04	.1256-01	.9365-01	535.5
33	1.9880	14.195	2252.0	.3399-03	.4116-03	.4116-03	.9000	.8253-05	.9994-05	.5953-02	.6055-01	535.3
33	2.0470	22.330	2255.0	.6725-04	.8139-04	.8139-04	.9000	.1633-05	.1976-05	.1181-02	.9117-02	533.5
33	2.4590	14.195	2256.0	.2514-02	.3045-02	.3045-02	.9000	.6104-04	.7391-04	.4402-01	.4925	535.4
33	2.4590	15.535	2257.0	.1556-02	.1884-02	.1884-02	.9000	.3778-04	.4575-04	.2726-01	.2259	535.2
33	2.4590	16.875	2259.0	.2177-03	.2636-03	.2636-03	.9000	.5285-05	.6400-05	.3814-02	.4268-01	535.1
33	2.4590	18.215	2259.0	.5446-04	.6593-04	.6593-04	.9000	.1322-05	.1601-05	.9543-03	.1335-01	534.8
33	2.4590	19.555	2260.0	.1676-02	.2031-02	.2031-02	.9000	.4070-04	.4930-04	.2932-01	.2342	536.4
33	2.4590	22.235	2262.0	.5561-03	.6733-03	.6733-03	.9000	.1350-04	.1635-04	.9745-02	.7270-01	534.8
33	2.4590	23.576	2263.0	.6072-03	.7351-03	.7351-03	.9000	.1474-04	.1785-04	.1065-01	.8222-01	534.2
33	5.1380	24.080	2279.0	.9596-03	.1162-02	.1162-02	.9000	.2330-04	.2822-04	.1678-01	.1251	536.5



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1172

OH84B 60-0 UPPER RH WING

(R4UJ22)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
74	2.011	7.980	40.05	-1426-06	436.5	1301.	94.69	.4544-01	2.026	3807.	.1295-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
74	.3510-01	.2863-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
74	1.9880	10.859	2249.0	.1437-01	.1738-01	.1738-01	.9000	.5045-03	.6100-03	.3795	2.812	548.5
74	1.9880	11.983	2250.0	.1959-02	.2367-02	.2367-02	.9000	.6876-04	.8309-04	.5188-01	.4124	546.2
74	1.9880	13.107	2251.0	.6999-03	.8456-03	.8456-03	.9000	.2456-04	.2968-04	.1854-01	.1375	546.0
74	1.9880	14.195	2252.0	.2284-03	.2761-03	.2761-03	.9000	.8018-05	.9689-05	.6045-02	.6113-01	546.7
74	2.0470	22.330	2255.0	.6936-04	.8381-04	.8381-04	.9000	.2434-05	.2942-05	.1836-02	.1408-01	546.5
74	2.0490	19.941	2254.0	.3359-03	.4063-03	.4063-03	.9000	.1179-04	.1426-04	.8852-02	.1092	549.7
74	2.4590	14.195	2256.0	.2578-02	.3115-02	.3115-02	.9000	.9048-04	.1093-03	.6825-01	.7594	546.4
74	2.4590	15.535	2257.0	.2849-02	.3445-02	.3445-02	.9000	.1000-03	.1209-03	.7526-01	.6198	548.1
74	2.4590	16.875	2258.0	.2745-03	.3320-03	.3320-03	.9000	.9635-05	.1165-04	.7244-02	.8050-01	548.8
74	2.4590	18.215	2259.0	.1429-03	.1729-03	.1729-03	.9000	.5016-05	.6067-05	.3766-02	.5228-01	549.9
74	2.4590	19.555	2260.0	.2869-02	.3474-02	.3474-02	.9000	.1027-03	.1219-03	.7522-01	.5956	553.7
74	2.4590	22.235	2262.0	.3015-03	.3646-03	.3646-03	.9000	.1058-04	.1280-04	.7953-02	.5891-01	549.1
74	2.4590	23.576	2263.0	.4690-03	.5666-03	.5666-03	.9000	.1646-04	.1989-04	.1242-01	.9533-01	546.0
74	5.1380	24.080	2279.0	.6263-02	.7581-02	.7581-02	.9000	.2198-03	.2661-03	.1645	1.217	552.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1173

OH84B 60-0 UPPER RH WING

(R4UJ22)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
83	3.029	7.990	40.05	- .1434-06	670.3	1315.	95.49	.6922-01	3.093	3827.	.1957-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
83	.4345-01	.2332-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
83	1.9880	10.859	2249.0	.1454-01	.1755-01	.1755-01	.9000	.6317-03	.7625-03	.4842	3.588	548.2
83	1.9880	11.983	2250.0	.1757-02	.2118-02	.2118-02	.9000	.7633-04	.9205-04	.5874-01	.4672	545.0
83	1.9880	13.107	2251.0	.5377-03	.6484-03	.6484-03	.9000	.2336-04	.2817-04	.1799-01	.1335	544.7
83	1.9880	14.195	2252.0	.3657-04	.4411-04	.4411-04	.9000	.1589-05	.1917-05	.1222-02	.1237-01	545.4
83	2.0470	22.330	2255.0	.3235-03	.3904-03	.3904-03	.9000	.1406-04	.1696-04	.1079-01	.8281-01	546.8
83	2.0490	19.941	2254.0	.4076-03	.4922-03	.4922-03	.9000	.1771-04	.2139-04	.1355-01	.1673	549.4
83	2.4590	14.195	2256.0	.2655-02	.3203-02	.3203-02	.9000	.1154-03	.1392-03	.8870-01	.9871	545.8
83	2.4590	15.535	2257.0	.3321-02	.4009-02	.4009-02	.9000	.1443-03	.1742-03	.1107	.9114	547.8
83	2.4590	16.875	2258.0	.4363-04	.5266-04	.5266-04	.9000	.1896-05	.2288-05	.1454-02	.1616-01	547.9
83	2.4590	18.215	2259.0	.4840-04	.5844-04	.5844-04	.9000	.2103-05	.2539-05	.1610-02	.2237-01	549.1
83	2.4590	19.555	2260.0	.5241-02	.6338-02	.6338-02	.9000	.2278-03	.2754-03	.1730	1.369	554.9
83	2.4590	20.895	2261.0	.3455-03	.4174-03	.4174-03	.9000	.1501-04	.1814-04	.1146-01	.1018	551.0
83	2.4590	22.235	2262.0	.6402-03	.7731-03	.7731-03	.9000	.2782-04	.3359-04	.2129-01	.1576	549.6
83	2.4590	23.576	2263.0	.8538-03	.1030-02	.1030-02	.9000	.3710-04	.4476-04	.2849-01	.2186	546.8
83	5.1380	24.080	2279.0	.1105-01	.1336-01	.1336-01	.9000	.4800-03	.5804-03	.3647	2.694	554.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1174

OH84B 60-0 UPPER RH WING

(R4UJ22)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
146	3.671	8.000	40.07	-.1071-02	851.7	1354.	98.09	.8724-01	3.908	3884.	.2400-02	.7893-07

RUN NUMBER	HREF BTU/ R FT <sup>2</sup> SEC	STN NO REF(R) =.0175
146	.4909-01	.2112-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT <sup>2</sup> SEC	H(TAW) BTU/R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWDT DEG. R /SEC	TW DEG. R
146	1.9880	10.859	2249.0	.1380-01	.1661-01	.1661-01	.9000	.6776-03	.8156-03	.5422	4.007	553.6
146	1.9880	11.983	2250.0	.1759-02	.2116-02	.2116-02	.9000	.8635-04	.1039-03	.6933-01	.5497	550.8
146	1.9880	13.107	2251.0	.5927-03	.7130-03	.7130-03	.9000	.2910-04	.3500-04	.2336-01	.1729	550.8
146	1.9880	14.195	2252.0	.9713-04	.1169-03	.1169-03	.9000	.4768-05	.5737-05	.3822-02	.3854-01	552.2
146	2.0470	22.330	2255.0	.7224-03	.8702-03	.8702-03	.9000	.3546-04	.4272-04	.2825-01	.2156	557.1
146	2.0490	19.941	2254.0	.6396-03	.7710-03	.7710-03	.9000	.3140-04	.3785-04	.2494-01	.3063	559.4
146	2.4590	14.195	2256.0	.2714-02	.3265-02	.3265-02	.9000	.1332-03	.1603-03	.1068	1.185	552.0
146	2.4590	15.535	2257.0	.3757-02	.4523-02	.4523-02	.9000	.1844-03	.2220-03	.1473	1.209	554.7
146	2.4590	16.875	2258.0	.2070-03	.2493-03	.2493-03	.9000	.1016-04	.1224-04	.8103-02	.8971-01	556.1
146	2.4590	18.215	2259.0	.2806-03	.3374-03	.3374-03	.9000	.1378-04	.1656-04	.1109-01	.1540	548.9
146	2.4590	19.555	2260.0	.6294-02	.7599-02	.7599-02	.9000	.3090-03	.3731-03	.2435	1.916	565.7
146	2.4590	20.895	2261.0	.3268-03	.3942-03	.3942-03	.9000	.1604-04	.1935-04	.1270-01	.1122	561.9
146	2.4590	22.235	2262.0	.1231-02	.1485-02	.1485-02	.9000	.6045-04	.7290-04	.4794-01	.3531	560.6
146	2.4590	23.576	2263.0	.1556-02	.1874-02	.1874-02	.9000	.7637-04	.9200-04	.6085-01	.4644	557.0
146	5.1380	24.080	2279.0	.2551-01	.3087-01	.3087-01	.9000	.1253-02	.1515-02	.9781	7.159	572.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1175

OH84B 60-0 UPPER RH WING

(R4UJ25)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 1.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
21	.5073	7.900	40.03	1.042	101.1	1252.	92.84	.1124-01	.4910	3732.	.3268-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
21	.1717-01	.5677-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
21	1.9880	10.859	2249.0	.1737-01	.2107-01	.2107-01	.9000	.2981-03	.3617-03	.2123	1.581	539.4
21	1.9880	11.983	2250.0	.2587-02	.3137-02	.3137-02	.9000	.4441-04	.5385-04	.3173-01	.2533	537.3
21	1.9880	13.107	2251.0	.1160-02	.1406-02	.1406-02	.9000	.1991-04	.2414-04	.1423-01	.1061	536.9
21	1.9880	14.195	2252.0	.4306-03	.5220-03	.5220-03	.9000	.7391-05	.8960-05	.5284-02	.5371-01	536.7
21	2.4590	14.195	2256.0	.3064-02	.3713-02	.3713-02	.9000	.5260-04	.6374-04	.3765-01	.4212	535.8
21	2.4590	15.535	2257.0	.1592-02	.1929-02	.1929-02	.9000	.2732-04	.3311-04	.1956-01	.1621	535.7
21	2.4590	16.875	2258.0	.1057-03	.1281-03	.1281-03	.9000	.1814-05	.2198-05	.1299-02	.1452-01	535.8
21	2.4590	19.555	2260.0	.2556-03	.3099-03	.3099-03	.9000	.4388-05	.5320-05	.3134-02	.2502-01	537.4
21	2.4590	22.235	2262.0	.6760-04	.8193-04	.8193-04	.9000	.1160-05	.1406-05	.8303-03	.6191-02	536.1
21	2.4590	23.576	2263.0	.1275-03	.1545-03	.1545-03	.9000	.2189-05	.2652-05	.1570-02	.1212-01	534.6
21	5.1380	24.080	2279.0	.2807-03	.3401-03	.3401-03	.9000	.4818-05	.5838-05	.3451-02	.2574-01	535.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1176

OH84B 60-0 UPPER RH WING

(R4UJ25)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
36	1.022	7.940	40.06	1.017	207.1	1254.	92.12	.2228-01	.9832	3736.	.6529-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
36	.2430-01	.4018-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
36	1.9880	10.959	2249.0	.1584-01	.1922-01	.1922-01	.9000	.3849-03	.4670-03	.2745	2.042	540.5
36	1.9880	11.983	2250.0	.2396-02	.2906-02	.2906-02	.9000	.5822-04	.7060-04	.4164-01	.3323	538.4
36	1.9880	13.107	2251.0	.8534-03	.1035-02	.1035-02	.9000	.2074-04	.2514-04	.1484-01	.1105	538.1
36	1.9880	14.195	2252.0	.4628-03	.5611-03	.5611-03	.9000	.1124-04	.1363-04	.8045-02	.8171-01	538.2
36	2.0470	22.330	2255.0	.4407-04	.5342-04	.5342-04	.9000	.1071-05	.1298-05	.7670-03	.5912-02	537.4
36	2.0490	19.941	2254.0	.9260-04	.1123-03	.1123-03	.9000	.2250-05	.2729-05	.1608-02	.1995-01	639.0
36	2.4590	14.195	2256.0	.2903-02	.3520-02	.3520-02	.9000	.7054-04	.8552-04	.5049-01	.5641	538.0
36	2.4590	15.535	2257.0	.1826-02	.2213-02	.2213-02	.9000	.4436-04	.5378-04	.3174-01	.2627	538.1
36	2.4590	16.875	2258.0	.4046-03	.4906-03	.4906-03	.9000	.9830-05	.1192-04	.7029-02	.7851-01	538.6
36	2.4590	18.215	2259.0	.1849-03	.2242-03	.2242-03	.9000	.4492-05	.5448-05	.3209-02	.4479-01	539.3
36	2.4590	19.555	2260.0	.1660-02	.2014-02	.2014-02	.9000	.4033-04	.4894-04	.2872-01	.2288	541.4
36	2.4590	20.895	2261.0	.2625-03	.3185-03	.3185-03	.9000	.6377-05	.7738-05	.4547-02	.4059-01	540.6
36	2.4590	22.235	2262.0	.4169-03	.5057-03	.5057-03	.9000	.1013-04	.1229-04	.7234-02	.5384-01	539.5
36	2.4590	23.576	2263.0	.5445-03	.6602-03	.6602-03	.9000	.1323-04	.1604-04	.9468-02	.7296-01	538.0
36	5.1380	24.080	2279.0	.1239-02	.1504-02	.1504-02	.9000	.3010-04	.3655-04	.2137-01	.1588	543.6

DATE 23 FEB 80

OH94B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1177

OH94B 60-0 UPPER RH WING

(R40J25)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 1.000    ELEVON = .0000  
 BDFLAP = .0000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
71	1.998	7.980	40.08	1.028	434.2	1302.	94.76	.4520-01	2.015	3808.	.1287-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
71	.3501-01	.2872-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
71	1.9880	10.859	2249.0	.1566-01	.1894-01	.1894-01	.9000	.5484-03	.6630-03	.4128	3.058	548.8
71	1.9880	11.983	2250.0	.2182-02	.2637-02	.2637-02	.9000	.7641-04	.9231-04	.5772-01	.4588	546.2
71	1.9880	13.107	2251.0	.6943-03	.8387-03	.8387-03	.9000	.2431-04	.2936-04	.1837-01	.1363	545.9
71	1.9880	14.195	2252.0	.2627-03	.3175-03	.3175-03	.9000	.9198-05	.1111-04	.6946-02	.7025-01	546.5
71	2.0470	22.330	2255.0	.1979-03	.2391-03	.2391-03	.9000	.6928-05	.8370-05	.5235-02	.4017-01	546.1
71	2.0490	19.941	2254.0	.3696-03	.4470-03	.4470-03	.9000	.1294-04	.1565-04	.9736-02	.1202	549.3
71	2.4590	14.195	2256.0	.2810-02	.3395-02	.3395-02	.9000	.9838-04	.1189-03	.7432-01	.8269	546.2
71	2.4590	15.535	2257.0	.3113-02	.3762-02	.3762-02	.9000	.1090-03	.1317-03	.8215-01	.6765	547.8
71	2.4590	16.875	2258.0	.4247-03	.5135-03	.5135-03	.9000	.1487-04	.1798-04	.1120-01	.1245	548.6
71	2.4590	18.215	2259.0	.2611-03	.3157-03	.3157-03	.9000	.9139-05	.1105-04	.6874-02	.9546-01	549.5
71	2.4590	19.555	2260.0	.2862-02	.3464-02	.3464-02	.9000	.1002-03	.1213-03	.7499-01	.5939	553.2
71	2.4590	20.895	2261.0	.6242-03	.7550-03	.7550-03	.9000	.2185-04	.2643-04	.1641-01	.1458	550.6
71	2.4590	22.235	2262.0	.3829-03	.4629-03	.4629-03	.9000	.1340-04	.1620-04	.1009-01	.7477-01	548.7
71	2.4590	23.576	2263.0	.5560-03	.6717-03	.6717-03	.9000	.1947-04	.2351-04	.1472-01	.1130	545.7
71	5.1380	24.080	2279.0	.6151-02	.7443-02	.7443-02	.9000	.2154-03	.2606-03	.1615	1.195	551.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1178

OH84B 60-0 UPPER RH WING

(R4UJ26)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
24	.5075	7.900	39.99	2.018	101.2	1252.	92.84	.1124-01	.4912	3732.	.3269-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
24	.1717-01	.5675-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
24	1.9880	10.859	2249.0	.1823-01	.2212-01	.2212-01	.9000	.3131-03	.3798-03	.2229	1.659	539.7
24	1.9880	11.983	2250.0	.2567-02	.3113-02	.3113-02	.9000	.4408-04	.5345-04	.3148-01	.2513	537.4
24	1.9880	13.107	2251.0	.9474-03	.1149-02	.1149-02	.9000	.1627-04	.1972-04	.1163-01	.8665-01	536.9
24	1.9880	14.195	2252.0	.4732-03	.5737-03	.5737-03	.9000	.8125-05	.9850-05	.5809-02	.5904-01	536.8
24	2.4590	14.195	2256.0	.3007-02	.3646-02	.3646-02	.9000	.5163-04	.6259-04	.3692-01	.4128	536.7
24	2.4590	15.535	2257.0	.1557-02	.1887-02	.1887-02	.9000	.2673-04	.3239-04	.1912-01	.1584	536.2
24	2.4590	18.215	2259.0	.4507-05	.5464-05	.5464-05	.9000	.7739-07	.9381-07	.5534-04	.7734-03	536.6
24	2.4590	19.555	2260.0	.1439-03	.1745-03	.1745-03	.9000	.2471-05	.2996-05	.1764-02	.1408-01	537.9
24	2.4590	20.895	2261.0	.8459-03	.1026-02	.1026-02	.9000	.1452-04	.1761-04	.1037-01	.9274-01	537.4
24	2.4590	23.576	2263.0	.1207-03	.1462-03	.1462-03	.9000	.2072-05	.2511-05	.1485-02	.1146-01	535.1
24	5.1380	24.080	2279.0	.1334-03	.1690-03	.1690-03	.9000	.2393-05	.2902-05	.1707-02	.1271-01	538.2

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1179

OH84B 60-O UPPER RH WING

(R4UJ26)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 2.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
39	1.016	7.940	40.02	2.015	206.2	1256.	92.27	.2218-01	.9789	3739.	.6489-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
39	.2425-01	.4030-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
39	1.9880	10.859	2249.0	.1706-01	.2071-01	.2071-01	.9000	.4138-03	.5021-03	.2955	2.197	541.7
39	1.9880	11.983	2250.0	.2627-02	.3186-02	.3186-02	.9000	.6371-04	.7725-04	.4564-01	.3640	539.4
39	1.9880	13.107	2251.0	.9417-03	.1142-02	.1142-02	.9000	.2284-04	.2769-04	.1636-01	.1218	539.0
39	1.9880	14.195	2252.0	.4496-03	.5452-03	.5452-03	.9000	.1090-04	.1322-04	.7812-02	.7930-01	539.2
39	2.0490	19.941	2254.0	.1547-04	.1876-04	.1876-04	.9000	.3752-06	.4550-06	.2684-03	.3328-02	540.3
39	2.4590	14.195	2256.0	.3154-02	.3824-02	.3824-02	.9000	.7648-04	.9273-04	.5482-01	.6123	538.9
39	2.4590	15.535	2257.0	.1853-02	.2247-02	.2247-02	.9000	.4494-04	.5449-04	.3219-01	.2663	539.2
39	2.4590	16.875	2258.0	.2649-03	.3213-03	.3213-03	.9000	.6425-05	.7791-05	.4598-02	.5133-01	539.9
39	2.4590	18.215	2259.0	.1385-03	.1680-03	.1680-03	.9000	.3359-05	.4075-05	.2402-02	.3350-01	540.7
39	2.4590	19.555	2260.0	.1450-02	.1761-02	.1761-02	.9000	.3517-04	.4269-04	.2507-01	.1996	542.9
39	2.4590	22.235	2262.0	.1918-03	.2327-03	.2327-03	.9000	.4652-05	.5643-05	.3327-02	.2475-01	540.5
39	2.4590	23.576	2263.0	.3244-03	.3932-03	.3932-03	.9000	.7866-05	.9536-05	.5640-02	.4345-01	538.7
39	5.1380	24.050	2279.0	.1404-02	.1704-02	.1704-02	.9000	.3404-04	.4133-04	.2424-01	.1800	543.7



## OH84B 60-0 UPPER RH WING

(R4UJ26)

## UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000  
 BOFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
68	2.002	7.980	40.01	2.012	434.5	1301.	94.69	.4523-01	2.016	3807.	.1289-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
68	.3502-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
68	1.9880	10.859	2249.0	.1675-01	.2026-01	.2026-01	.9000	.5866-03	.7094-03	.4407	3.263	549.4
68	1.9880	11.983	2250.0	.2362-02	.2855-02	.2855-02	.9000	.8272-04	.9997-04	.6237-01	.4956	546.7
68	1.9880	13.107	2251.0	.7907-03	.9554-03	.9554-03	.9000	.2769-04	.3345-04	.2089-01	.1550	546.2
68	1.9880	14.195	2252.0	.1993-03	.2409-03	.2409-03	.9000	.6979-05	.8434-05	.5262-02	.5321-01	546.7
68	2.0470	22.330	2255.0	.1409-04	.1703-04	.1703-04	.9000	.4934-06	.5962-06	.3724-03	.2858-02	545.9
68	2.0490	19.941	2254.0	.2912-03	.3521-03	.3521-03	.9000	.1020-04	.1233-04	.7662-02	.9458-01	549.2
68	2.4590	14.195	2256.0	.3002-02	.3628-02	.3628-02	.9000	.1051-03	.1270-03	.7926-01	.8817	546.7
68	2.4590	15.535	2257.0	.3176-02	.3839-02	.3839-02	.9000	.1112-03	.1344-03	.8369-01	.6891	548.1
68	2.4590	16.875	2258.0	.3193-03	.3861-03	.3861-03	.9000	.1118-04	.1352-04	.8406-02	.9342-01	548.7
68	2.4590	18.215	2259.0	.2321-03	.2807-03	.2807-03	.9000	.8126-05	.9827-05	.6104-02	.8475-01	549.5
68	2.4590	19.555	2260.0	.2520-02	.3051-02	.3051-02	.9000	.8824-04	.1068-03	.6597-01	.5225	553.0
68	2.4590	22.235	2262.0	.1532-03	.1852-03	.1852-03	.9000	.5365-05	.6486-05	.4036-02	.2991-01	548.4
68	2.4590	23.576	2263.0	.2693-03	.3254-03	.3254-03	.9000	.9431-05	.1139-04	.7125-02	.5470-01	545.2
68	5.1380	24.080	2279.0	.6148-02	.7436-02	.7436-02	.9000	.2153-03	.2604-03	.1617	1.197	549.7

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1181

OH84B 60-O UPPER RH WING

(R4UJ27)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
27	.5107	7.900	40.02	4.000	101.5	1249.	92.62	.1128-01	.4926	3727.	.3286-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
27	.1719-01	.5660-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
27	1.9880	10.859	2249.0	.2097-01	.2545-01	.2545-01	.9000	.3604-03	.4374-03	.2554	1.901	539.9
27	1.9880	11.983	2250.0	.3048-02	.3697-02	.3697-02	.9000	.5238-04	.6353-04	.3726-01	.2975	537.3
27	1.9880	13.107	2251.0	.1387-02	.1682-02	.1682-02	.9000	.2384-04	.2891-04	.1697-01	.1265	536.8
27	1.9880	14.195	2252.0	.6308-03	.7649-03	.7649-03	.9000	.1084-04	.1315-04	.7718-02	.7844-01	536.7
27	2.4590	14.195	2256.0	.3612-02	.4380-02	.4380-02	.9000	.6208-04	.7528-04	.4422-01	.4944	536.4
27	2.4590	15.535	2257.0	.2069-02	.2509-02	.2509-02	.9000	.3556-04	.4312-04	.2534-01	.2099	536.1
27	2.4590	16.875	2258.0	.2596-03	.3148-03	.3148-03	.9000	.4462-05	.5410-05	.3179-02	.3555-01	536.2
27	2.4590	18.215	2259.0	.1919-03	.2327-03	.2327-03	.9000	.3297-05	.3999-05	.2348-02	.3281-01	536.7
27	2.4590	19.555	2260.0	.3021-03	.3665-03	.3665-03	.9000	.5192-05	.6299-05	.3690-02	.2945-01	538.0
27	2.4590	23.576	2263.0	.4896-03	.5935-03	.5935-03	.9000	.8414-05	.1020-04	.6005-02	.4634-01	535.0
27	5.1380	24.080	2279.0	.1284-03	.1558-03	.1558-03	.9000	.2207-05	.2678-05	.1568-02	.1168-01	538.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1182

OH84B 60-0 UPPER RH WING

(R40J27)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
42	1.017	7.940	39.99	4.011	205.6	1252.	91.98	.2212-01	.9761	3733.	.6491-03	.7401-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
42	.2420-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
42	1.9880	10.859	2249.0	.2017-01	.2449-01	.2449-01	.9000	.4880-03	.5927-03	.3459	2.570	542.9
42	1.9880	11.983	2250.0	.2994-02	.3634-02	.3634-02	.9000	.7247-04	.8795-04	.5154-01	.4109	540.4
42	1.9880	13.107	2251.0	.1292-02	.1567-02	.1567-02	.9000	.3126-04	.3794-04	.2225-01	.1656	539.9
42	1.9880	14.195	2252.0	.6668-03	.8091-03	.8091-03	.9000	.1614-04	.1958-04	.1149-01	.1165	539.9
42	2.0470	22.330	2255.0	.7467-06	.9057-06	.9057-06	.9000	.1807-07	.2192-07	.1298-04	.9924-04	538.7
42	2.0490	19.941	2254.0	.6518-04	.7911-04	.7911-04	.9000	.1578-05	.1915-05	.1121-02	.1390-01	540.9
42	2.4590	14.195	2256.0	.3595-02	.4362-02	.4362-02	.9000	.8701-04	.1056-03	.6191-01	.6910	540.1
42	2.4590	15.535	2257.0	.2125-02	.2579-02	.2579-02	.9000	.5144-04	.6242-04	.3660-01	.3026	540.1
42	2.4590	16.875	2258.0	.5355-03	.6499-03	.6499-03	.9000	.1296-04	.1573-04	.9215-02	.1028	540.6
42	2.4590	18.215	2259.0	.2470-03	.2998-03	.2998-03	.9000	.5977-05	.7255-05	.4246-02	.5920-01	541.3
42	2.4590	19.555	2260.0	.1746-02	.2121-02	.2121-02	.9000	.4226-04	.5133-04	.2992-01	.2382	543.5
42	2.4590	20.895	2261.0	.2003-02	.2432-02	.2432-02	.9000	.4848-04	.5887-04	.3439-01	.3067	542.3
42	2.4590	22.235	2262.0	.6442-04	.7820-04	.7820-04	.9000	.1559-05	.1892-05	.1108-02	.8241-02	541.0
42	2.4590	23.576	2263.0	.1565-03	.1899-03	.1899-03	.9000	.3788-05	.4595-05	.2700-02	.2079-01	539.0
42	5.1380	24.080	2279.0	.1162-02	.1411-02	.1411-02	.9000	.2812-04	.3415-04	.1992-01	.1480	543.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1186

OH84B 60-0 UPPER RH WING

(R4UJ27)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
66	2.012	7.980	40.01	4.024	435.7	1299.	94.54	.4536-01	2.022	3804.	.1295-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
66	.3506-01	.2863-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
66	1.9880	10.859	2249.0	.1972-01	.2387-01	.2387-01	.9000	.6914-03	.8369-03	.5165	3.821	551.6
66	1.9880	11.983	2250.0	.3019-02	.3650-02	.3650-02	.9000	.1058-03	.1280-03	.7941-01	.6305	548.2
66	1.9880	13.107	2251.0	.1097-02	.1326-02	.1326-02	.9000	.3846-04	.4650-04	.2888-01	.2141	547.6
66	1.9880	14.195	2252.0	.4554-03	.5507-03	.5507-03	.9000	.1596-04	.1930-04	.1198-01	.1211	548.1
66	2.0490	19.941	2254.0	.4352-03	.5267-03	.5267-03	.9000	.1526-04	.1846-04	.1141-01	.1407	551.1
66	2.4590	14.195	2256.0	.3665-02	.4433-02	.4433-02	.9000	.1285-03	.1554-03	.9637-01	1.071	548.6
66	2.4590	15.535	2257.0	.3942-02	.4769-02	.4769-02	.9000	.1382-03	.1672-03	.1034	.8510	550.0
66	2.4590	16.875	2258.0	.8146-03	.9858-03	.9858-03	.9000	.2856-04	.3456-04	.2136-01	.2371	550.8
66	2.4590	18.215	2259.0	.5199-03	.6293-03	.6293-03	.9000	.1823-04	.2206-04	.1361-01	.1888	551.8
66	2.4590	19.555	2260.0	.2716-02	.3290-02	.3290-02	.9000	.9520-04	.1153-03	.7076-01	.5598	555.3
66	2.4590	20.895	2261.0	.5271-03	.6381-03	.6381-03	.9000	.1848-04	.2237-04	.1379-01	.1224	552.3
66	2.4590	22.235	2262.0	.1790-04	.2166-04	.2166-04	.9000	.6274-06	.7592-06	.4695-03	.3476-02	550.3
66	2.4590	23.576	2263.0	.4605-03	.5568-03	.5568-03	.9000	.1614-04	.1952-04	.1213-01	.9304-01	547.3
66	5.1380	24.080	2279.0	.7433-02	.9008-02	.9008-02	.9000	.2606-03	.3158-03	.1935	1.428	556.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1184

OH84B 60-0 UPPER RH WING

(R4UJ28)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
30	.5116	7.900	40.08	9.969	101.8	1250.	92.69	.1131-01	.4940	3729.	.3293-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
30	.1721-01	.5655-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
30	1.9700	17.545	2253.0	.9395-04	.1139-03	.1139-03	.9000	.1617-05	.1961-05	.1152-02	.9901-02	537.5
30	1.9880	10.859	2249.0	.2923-01	.3549-01	.3549-01	.9000	.5031-03	.6109-03	.3561	2.647	541.8
30	1.9880	11.983	2250.0	.5025-02	.6098-02	.6098-02	.9000	.8650-04	.1050-03	.6144-01	.4901	539.3
30	1.9880	13.107	2251.0	.2507-02	.3042-02	.3042-02	.9000	.4316-04	.5236-04	.3069-01	.2286	538.5
30	1.9880	14.195	2252.0	.1467-02	.1779-02	.1779-02	.9000	.2525-04	.3063-04	.1795-01	.1823	538.5
30	2.0490	19.941	2254.0	.1257-03	.1525-03	.1525-03	.9000	.2164-05	.2625-05	.1540-02	.1913-01	537.8
30	2.4590	14.195	2256.0	.5384-02	.6532-02	.6532-02	.9000	.9268-04	.1124-03	.6588-01	.7358	538.8
30	2.4590	15.535	2257.0	.3063-02	.3715-02	.3715-02	.9000	.5272-04	.6395-04	.3751-01	.3104	538.2
30	2.4590	16.875	2258.0	.1357-02	.1658-02	.1658-02	.9000	.2353-04	.2855-04	.1673-01	.1868	538.7
30	2.4590	18.215	2259.0	.8664-03	.1051-02	.1051-02	.9000	.1491-04	.1810-04	.1060-01	.1480	539.0
30	2.4590	19.555	2260.0	.1716-02	.2083-02	.2083-02	.9000	.2954-04	.3585-04	.2097-01	.1672	540.0
30	5.1380	24.080	2279.0	.1329-02	.1614-02	.1614-02	.9000	.2287-04	.2778-04	.1618-01	.1203	542.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER RH WING

(R4UJ28)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
45	1.021	7.940	39.96	10.01	208.6	1261.	92.64	.2244-01	.9903	3746.	.6538-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
45	.2441-01	.4017-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
45	1.9700	17.545	2253.0	.1766-03	.2141-03	.2141-03	.9000	.4310-05	.5225-05	.3104-02	.2664-01	540.6
45	1.9880	10.859	2249.0	.2947-01	.3578-01	.3578-01	.9000	.7194-03	.8734-03	.5144	3.817	545.6
45	1.9880	11.983	2250.0	.5137-02	.6230-02	.6230-02	.9000	.1254-03	.1520-03	.9010-01	.7176	542.1
45	1.9880	13.107	2251.0	.2473-02	.2993-02	.2998-02	.9000	.6035-04	.7317-04	.4343-01	.3230	541.0
45	1.9880	14.195	2252.0	.1363-02	.1653-02	.1653-02	.9000	.3328-04	.4035-04	.2394-01	.2428	541.2
45	2.0470	22.330	2255.0	.2818-03	.3415-03	.3415-03	.9000	.6879-05	.8335-05	.4964-02	.3823-01	539.0
45	2.0490	19.941	2254.0	.4731-03	.5736-03	.5736-03	.9000	.1155-04	.1400-04	.8304-02	.1029	541.5
45	2.4530	14.195	2256.0	.5579-02	.6765-02	.6765-02	.9000	.1362-03	.1651-03	.9791-01	1.092	541.7
45	2.4590	15.535	2257.0	.3872-02	.4694-02	.4694-02	.9000	.9450-04	.1146-03	.6797-01	.5616	541.4
45	2.4590	16.875	2258.0	.1682-02	.2040-02	.2040-02	.9000	.4106-04	.4980-04	.2950-01	.3290	542.1
45	2.4590	18.215	2259.0	.8832-03	.1078-02	.1078-02	.9000	.2170-04	.2632-04	.1559-01	.2173	542.3
45	2.4590	19.555	2260.0	.3019-02	.3664-02	.3664-02	.9000	.7370-04	.8944-04	.5277-01	.4198	544.6
45	2.4590	20.895	2261.0	.9651-03	.1171-02	.1171-02	.9000	.2356-04	.2857-04	.1691-01	.1507	542.9
45	2.4590	22.235	2262.0	.3321-03	.4027-03	.4027-03	.9000	.8106-05	.9828-05	.5831-02	.4336-01	541.3
45	2.4590	23.576	2263.0	.4184-03	.5070-03	.5070-03	.9000	.1021-04	.1237-04	.7367-02	.5673-01	539.2
45	5.1380	24.080	2279.0	.4119-02	.4999-02	.4999-02	.9000	.1005-03	.1220-03	.7207-01	.5352	543.9

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1180

OH84B 60-0 UPPER RH WING

(R4UJ28)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
58	1.996	7.980	40.01	10.01	434.6	1304.	94.91	.4524-01	2.017	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
58	.3503-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
58	1.9700	17.545	2253.0	.3308-03	.3992-03	.3992-03	.9000	.1159-04	.1398-04	.8827-02	.7571-01	542.1
58	1.9880	10.859	2249.0	.2904-01	.3510-01	.3510-01	.9000	.1017-02	.1230-02	.7681	5.691	548.6
58	1.9880	11.993	2250.0	.5587-02	.6745-02	.6745-02	.9000	.1957-03	.2363-03	.1486	1.183	544.3
58	1.9880	13.107	2251.0	.2683-02	.3238-02	.3238-02	.9000	.9400-04	.1134-03	.7156-01	.5319	542.4
58	1.9880	14.195	2252.0	.1044-02	.1260-02	.1260-02	.9000	.3657-04	.4413-04	.2785-01	.2822	542.3
58	2.0470	22.330	2255.0	.2231-02	.2691-02	.2691-02	.9000	.7815-04	.9427-04	.5955-01	.4581	541.6
58	2.0490	19.941	2254.0	.1915-02	.2313-02	.2313-02	.9000	.6711-04	.8102-04	.5093-01	.6301	544.8
58	2.4590	14.195	2256.0	.4936-02	.5957-02	.5957-02	.9000	.1729-03	.2087-03	.1315	1.466	543.2
58	2.4590	15.535	2257.0	.5774-02	.6970-02	.6970-02	.9000	.2023-03	.2442-03	.1537	1.269	543.8
58	2.4590	16.875	2258.0	.1972-02	.2381-02	.2381-02	.9000	.6910-04	.8343-04	.5244-01	.5839	544.8
58	2.4590	18.215	2259.0	.1545-02	.1866-02	.1866-02	.9000	.5414-04	.6537-04	.4108-01	.5717	545.0
58	2.4590	19.555	2260.0	.6429-02	.7770-02	.7770-02	.9000	.2252-03	.2722-03	.1701	1.350	548.5
58	2.4590	20.895	2261.0	.3116-02	.3764-02	.3764-02	.9000	.1092-03	.1319-03	.8242-01	.7352	546.6
58	2.4590	22.235	2262.0	.4919-02	.5939-02	.5939-02	.9000	.1723-03	.2081-03	.1307	.9701	545.1
58	2.4590	23.576	2263.0	.9293-02	.1122-01	.1122-01	.9000	.3256-03	.3931-03	.2471	1.898	544.6
58	5.1380	24.080	2279.0	.1053-01	.1272-01	.1272-01	.9000	.3688-03	.4458-03	.2785	2.063	548.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1187

OH84B 60-0 UPPER RH WING

(R4UJ29)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
718	.5143	7.900	39.98	.3466-02	101.8	1246.	92.40	.1131-01	.4942	3723.	.3305-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
718	.1721-01	.5643-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
718	5.1380	24.080	2279.0	.1780-02	.2149-02	.2149-02	.9000	.3063-04	.3698-04	.2221-01	.1669	520.5



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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1188

OH84B 60-0 UPPER RH WING

(R4UJ29)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
716	1.024	7.940	39.99	.3470-02	208.1	1257.	92.34	.2239-01	.9879	3740.	.6543-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
716	.2437-01	.4014-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
716	5.1380	24.080	2279.0	.1008-02	.1217-02	.1217-02	.9000	.2456-04	.2966-04	.1793-01	.1344	526.5

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OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1189

OH848 60-0 UPPER RH WING

(R4UJ29)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
710	2.005	7.980	40.03	.1045-01	436.6	1304.	94.91	.4546-01	2.026	3811.	.1293-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
710	.3512-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
710	5.1380	24.080	2279.0	.8943-02	.1076-01	.1076-01	.9000	.3140-03	.3778-03	.2424	1 912	531.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1190

OH84B 60-0 UPPER RH WING

(R4UJ29)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
708	2.986	7.990	40.06	.1048-01	669.0	1326.	96.29	.6909-01	3.087	3843.	.1937-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
708	.4347-01	.2346-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
708	5.1380	24.080	2279.0	.1309-01	.1575-01	.1575-01	.9000	.5692-03	.6848-03	.4471	3.327	540.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1191

OH84B 60-0 UPPER RH WING

(R4UJ30)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
720	.5013	7.900	39.98	.3465-02	100.8	1259.	93.36	.1120-01	.4894	3742.	.3238-03	.7513-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
720	.1715-01	.5706-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
720	5.1380	24.080	2279.0	.1235-02	.1490-02	.1490-02	.9000	.2119-04	.2557-04	.1558-01	.1170	523.2

DATE 23 FEB 80

UPPER RH WING

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

OH84B 60-0 UPPER RH WING

PAGE 1192

(R4UJ30)

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
714	.9986	7.940	40.00	.1042-01	205.2	1266.	93.00	.2207-01	.9741	3754.	.6406-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
714	.2422-01	.4060-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
714	5.1380	24.080	2279.0	.9691-03	.1168-02	.1168-02	.9000	.2348-04	.2829-04	.1747-01	.1312	521.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1193

OH84B 60-0 UPPER RH WING

(R4UJ30)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
712	1.997	7.980	40.05	.1047-01	433.8	1302.	94.76	.4516-01	2.013	3808.	.1286-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
712	.3499-01	.2873-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
712	5.1380	24.080	2279.0	.1660-02	.1996-02	.1996-02	.9000	.5809-04	.6986-04	.4488-01	.3358	529.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1194

OH84B 60-0 UPPER RH WING

(R4UJ30)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
706	3.002	7.990	40.06	.6989-02	668.9	1321.	95.92	.6908-01	3.087	3836.	.1944-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
706	.4344-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
706	5.1380	24.080	2279.0	.5344-02	.6420-02	.6420-02	.9000	.2322-03	.2789-03	.1829	1.366	532.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1195

OH84B 60-0 UPPER RH WING

(R4UJ31)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = -12.50    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
726	.5101	7.900	39.98	-.1733-01	102.3	1257.	93.21	.1137-01	.4967	3739.	.3292-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
726	.1729-01	.5658-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
726	5.1380	24.080	2279.0	.1467-02	.1772-02	.1772-02	.9000	.2535-04	.3062-04	.1850-01	.1386	526.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1196

OH84B 60-0 UPPER RH WING

(R4UJ31)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
BDFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
740	1.019	7.940	39.99	-12.50	209.3	1266.	93.00	.2252-01	.9937	3754.	.6534-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
740	.2447-01	.4020-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
740	5.1380	24.080	2279.0	.1130-02	.1365-02	.1365-02	.9000	.2765-04	.3340-04	.2031-01	.1518	531.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1197

OH84B 60-0 UPPER RH WING

(R4UJ31)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVEN = -12.50  
BOFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
738	1.994	7.980	40.04	-.2093-01	434.8	1305.	94.98	.4527-01	2.018	3813.	.1286-02	.7643-07

RUN NUMBER	HREF BTU/R FT2SEC	STN NO REF(R) =.0175
738	.3505-01	.2874-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
738	5.1380	24.080	2279.0	.3076-02	.3706-02	.3706-02	.9000	.1078-03	.1299-03	.8277-01	.6169	537.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1199

OH84B 60-0 UPPER RH WING

(R4UJ31)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
728	2.991	7.990	40.06	-.2097-01	667.2	1325.	96.21	.6890-01	3.079	3842.	.1933-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
728	.4341-01	.2348-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
728	5.1380	24.080	2279.0	.5174-02	.6218-02	.6218-02	.9000	.2246-03	.2699-03	.1773	1.322	535.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1199

OH84B 60-0 UPPER RH WING

(R4UJ32)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
724	.4963	7.900	39.97	-.1732-01	100.2	1263.	93.66	.1114-01	.4867	3748.	.3211-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
724	.1712-01	.5733-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
724	5.1380	24.080	2279.0	.1163-02	.1405-02	.1405-02	.9000	.1991-04	.2404-04	.1464-01	.1096	527.7

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1200

OH84B 60-O UPPER RH WING

(R4UJ32)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 SDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
742	1.010	7.940	39.99	-.2082-01	207.8	1267.	93.08	.2235-01	.9865	3755.	.6482-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
742	.2438-01	.4036-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
742	5.1380	24.080	2279.0	.1423-02	.1721-02	.1721-02	.9000	.3470-04	.4195-04	.2543-01	.1898	533.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1201

OH84B 60-0 UPPER RH WING

(R40J32)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
736	2.005	7.980	40.05	-.2095-01	437.2	1305.	94.98	.4552-01	2.029	3813.	.1293-02	.7843-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
736	.3515-01	.2866-01

\*\* TEST DATA\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
736	5.1380	24.080	2279.0	.3432-02	.4133-02	.4133-02	.9000	.1206-03	.1453-03	.9282-01	.6924	535.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1202

OH84B 60-0 UPPER RH WING

(R4UJ32)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
730	3.012	7.990	40.06	-2097-01	668.8	1318.	95.71	.6907-01	3.086	3832.	.1948-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
730	.4342-01	.2338-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
730	5.1380	24.080	2279.0	.5348-02	.6425-02	.6425-02	.9000	.2322-03	.2790-03	.1825	1.364	531.7

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1203

OH84B 60-O UPPER RH WING

(R4UJ33)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
722	.5002	7.900	39.98	-.1387-01	100.2	1256.	93.14	.1114-01	.4865	3737.	.3227-03	.7495-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
722	.1710-01	.5715-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
722	5.1380	24.080	2279.0	.1031-02	.1245-02	.1245-02	.9000	.1763-04	.2129-04	.1286-01	.9641-01	525.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1204

OH84B 60-0 UPPER RH WING

(R4UJ33)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
744	1.009	7.940	39.98	-.2081-01	207.3	1266.	93.00	.2230-01	.9841	3754.	.6472-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
744	.2435-01	.4039-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
744	5.1380	24.080	2279.0	.1397-02	.1689-02	.1689-02	.9000	.3401-04	.4111-04	.2492-01	.1861	533.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1205

OH84B 60-0 UPPER RH WING

(R4UJ33)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
734	2.024	7.980	40.04	-.2091-01	437.2	1297.	94.40	.4552-01	2.029	3801.	.1301-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
734	.3511-01	.2855-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
734	5.1380	24.080	2279.0	.3419-02	.4120-02	.4120-02	.9000	.1201-03	.1447-03	.9150-01	.6828	534.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1206

OH84B 60-0 UPPER RH WING

(R4UJ33)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
732	3.029	7.990	40.06	-.2096-01	672.6	1318.	95.71	.6946-01	3.104	3832.	.1959-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
732	.4354-01	.2331-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
732	5.1380	24.080	2279.0	.4416-02	.5305-02	.5305-02	.9000	.1923-03	.2310-03	.1512	1.130	531.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1207

OH84B 60-0 UPPER RH WING

(R4UJ34)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = -12.50    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
634	.5013	7.900	39.93	-.3449-02	100.1	1253.	92.91	.1112-01	.4859	3733.	.3231-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
634	.1708-01	.5710-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
634	5.1380	24.080	2279.0	.3754-03	.4537-03	.4537-03	.9000	.6412-05	.7748-05	.4656-02	.3489-01	526.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1208

OH84B 60-0 UPPER RH WING

(R4UJ34)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = -12.50    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
660	1.010	7.940	39.98	-4647-06	207.9	1267.	93.08	.2236-01	.9868	3755.	.6484-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
660	.2438-01	.4035-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
660	5.1380	24.080	2279.0	.1399-02	.1689-02	.1689-02	.9000	.3412-04	.4117-04	.2523-01	.1890	527.2

B\_80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1209

OH84B 60-0 UPPER RH WING

(R4UJ34)

WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
.995	7.980	39.99	.3470-02	436.1	1307.	95.13	.4540-01	2.024	3815.	.1288-02	.7655-07
HREF BTU/ R FT2SEC .3511-01	STN NO REF(R) =.0175 .2872-01										

## \*\*\*TEST DATA\*\*\*

YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
5.1380	24.080	2279.0	.4565-02	.5491-02	.5491-02	.9000	.1603-03	.1928-03	.1242	.9280	531.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1210

OH84B 60-0 UPPER RH WING

(R4UJ34)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
650	3.009	7.990	40.05	.6980-02	670.4	1321.	95.92	.6923-01	3.094	3836.	.1948-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
650	.4349-01	.2338-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
650	5.1380	24.080	2279.0	.7143-02	.8586-02	.8586-02	.9000	.3106-03	.3734-03	.2441	1.822	534.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1211

OH84B 60-0 UPPER RH WING

(R4UJ35)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
636	.5020	7.900	39.95	-.3458-02	99.73	1249.	92.62	.1108-01	.4842	3727.	.3230-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
636	.1704-01	.5709-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
636	5.1380	24.080	2279.0	.1096-02	.1325-02	.1325-02	.9000	.1868-04	.2257-04	.1354-01	.1016	523.8



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL  
OH84B 60-0 UPPER RH WING

PAGE 1212

(R4UJ35)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
658	1.007	7.940	39.98	-4647-06	207.2	1267.	93.08	.2229-01	.9835	3755.	.6462-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
658	.2434-01	.4042-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
658	5.1380	24.080	2279.0	.1849-02	.2232-02	.2232-02	.9000	.4502-04	.5433-04	.3326-01	.2490	527.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1213

OH84B 60-0 UPPER RH WING

(R00J35)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
646	2.016	7.980	39.99	-.4655-06	436.5	1299.	94.54	.4544-01	2.025	3804.	.1297-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
646	.3509-01	.2860-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
646	5.1380	24.080	2279.0	.4289-02	.5174-02	.5174-02	.9000	.1505-03	.1815-03	.1143	.8507	539.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1214

OH84B 60-0 UPPER RH WING

(R4UJ35)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
656	3.001	7.990	40.02	.6961-02	672.3	1326.	96.29	.6943-01	3.103	3843.	.1946-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
656	.4358-01	.2340-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
656	5.1380	24.080	2279.0	.7909-02	.9504-02	.9504-02	.9000	.3447-03	.4142-03	.2722	2.030	535.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1215

OH84B 60-0 UPPER RH WING

(R4UJ36)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P PSIA	T DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
638	.5027	7.900	39.93	-.1035-01	99.87	1249.	92.62	.1110-01	.4849	3727.	.3235-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
638	.1705-01	.5705-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
638	5.1380	24.080	2279.0	.3511-03	.4245-03	.4245-03	.9000	.5986-05	.7237-05	.4323-02	.3239-01	526.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1216

OH84B 60-0 UPPER RH WING

(R4UJ36)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
664	1.016	7.940	39.97	-.4646-06	207.5	1261.	92.64	.2232-01	.9849	3746.	.6503-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
664	.2434-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
664	5.1380	24.080	2279.0	.1499-02	.1810-02	.1810-02	.9000	.3649-04	.4406-04	.2675-01	.2004	527.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1217

OH84B 60-0 UPPER RH WING

(R4UJ36)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
644	2.002	7.980	39.98	-.1040-01	434.5	1301.	94.69	.4523-01	2.016	3807.	.1289-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
644	.3502-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
644	5.1360	24.090	2279.0	.5088-02	.6124-02	.6124-02	.9000	.1781-03	.2144-03	.1369	1.023	532.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1210

OH84B 60-0 UPPER RH WING

(R4UJ36)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
654	2.991	7.990	40.02	.6962-02	669.5	1325.	96.21	.6914-01	3.090	3842.	.1940-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
654	.4348-01	.2344-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
654	5.1380	24.080	2279.0	.7631-02	.9170-02	.9170-02	.9000	.3318-03	.3987-03	.2619	1.954	535.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1219

OH84B 60-0 UPPER RH WING

(R4UJ37)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
640	.5043	7.900	39.93	-.1035-01	99.93	1247.	92.47	.1111-01	.4852	3724.	.3242-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
640	.1705-01	.5698-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
640	5.1380	24.080	2279.0	.6429-03	.7765-03	.7765-03	.9000	.1096-04	.1324-04	.7947-02	.5968-01	521.8



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1220

OH84B 60-0 UPPER RH WING

(R4UJ37)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
662	1.024	7.940	39.97	-4645-06	207.3	1253.	92.05	.2230-01	.9840	3734.	.6538-03	.7407-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
662	.2430-01	.4014-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
662	5.1380	24.080	2279.0	.1773-02	.2143-02	.2143-02	.9000	.4308-04	.5209-04	.3121-01	.2336	528.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1221

OH84B 60-0 UPPER RH WING

(R4UJ37)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
642	2.013	7.980	39.98	-1040-01	434.8	1297.	94.40	.4526-01	2.018	3801.	.1294-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
642	.3501-01	.2863-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
642	5.1380	24.080	2279.0	.5709-02	.6867-02	.6867-02	.9000	.1999-03	.2404-03	.1537	1.151	527.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1222

OH84B 60-0 UPPER RH WING

(R4UJ37)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
652	2.983	7.990	40.04	.6976-02	671.4	1330.	96.58	.6934-01	3.098	3849.	.1938-02	.7772-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
652	.4357-01	.2346-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
652	5.1380	24.080	2279.0	.7701-02	.9254-02	.9254-02	.9000	.3356-03	.4032-03	.2658	1.980	537.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1223

OH84B 60-0 UPPER RH WING

(R4UJ38)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
632	.5132	7.900	39.95	.1729-01	101.7	1247.	92.47	.1130-01	.4938	3724.	.3299-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
632	.1720-01	.5648-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
632	5.1380	24.080	2279.0	.2301-03	.2781-03	.2781-03	.9000	.3958-05	.4785-05	.2856-02	.2141-01	525.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1224

OH84B 60-0 UPPER RH WING

(R4UJ38)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = -12.50 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
606	.9965	7.940	39.96	.1384-01	204.8	1266.	93.00	.2203-01	.9721	3754.	.6392-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
606	.2420-01	.4064-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
606	5.1380	24.080	2279.0	.1576-03	.1900-03	.1900-03	.9000	.3814-05	.4599-05	.2829-02	.2123-01	523.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1225

OH84B 60-0 UPPER RH WING

(R4UJ38)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = -12.50 SPDERK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
604	2.022	7.980	40.00	.1389-01	434.9	1293.	94.11	.4527-01	2.018	3795.	.1298-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
604	.3499-01	.2858-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
604	5.1380	24.080	2279.0	.3317-02	.3994-02	.3994-02	.9000	.1161-03	.1398-03	.8852-01	.6620	530.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1226

OH84B 60-0 UPPER RH WING

(R4UJ38)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
582	2.997	7.990	40.06	.1397-01	671.5	1326.	96.29	.6935-01	3.099	3843.	.1944-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
582	.4355-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
582	5.1380	24.080	2279.0	.1994-01	.2399-01	.2399-01	.9000	.8683-03	.1045-02	.6820	5.074	540.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1227

OH84B 60-0 UPPER RH WING

(R4UJ39)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
622	.5001	7.900	39.93	.1380-01	99.35	1249.	92.62	.1104-01	.4824	3727.	.3218-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
622	.1701-01	.5720-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
622	5.1380	24.080	2279.0	.3256-03	.3930-03	.3930-03	.9000	.5538-05	.6683-05	.4034-02	.3033-01	520.1



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1228

OH84B 60-0 UPPER RH WING

(R4UJ39)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
616	.9964	7.940	39.97	.1731-01	204.3	1264.	92.86	.2197-01	.9697	3751.	.6387-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
616	.2416-01	.4065-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
616	5.1380	24.080	2279.0	.9350-04	.1128-03	.1128-03	.9000	.2259-05	.2725-05	.1671-02	.1253-01	524.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1229

OH84B 60-0 UPPER RH WING

(R4UJ39)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
594	2.010	7.980	39.99	.1735-01	435.8	1300.	94.62	.4537-01	2.022	3805.	.1294-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
594	.3506-01	.2664-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
594	5.1380	24.080	2279.0	.1031-01	.1242-01	.1242-01	.9000	.3615-03	.4354-03	.2768	2.066	533.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1230

OH84B 60-0 UPPER RH WING

(R4UJ39)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	- MU LB-SEC /FT2
580	2.988	7.990	39.99	.1041-01	669.5	1326.	96.29	.6914-01	3.090	3843.	.1938-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
580	.4349-01	.2345-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
580	5.1380	24.080	2279.0	.1547-01	.1864-01	.1864-01	.9000	.6730-03	.8105-03	.5257	3.903	544.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1231

OH84B 60-0 UPPER RH WING

(R4UJ40)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBR% = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
624	.5083	7.900	39.94	.1381-01	101.7	1255.	93.06	.1130-01	.4938	3736.	.3278-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
624	.1722-01	.5670-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
624	5.1350	24.080	2279.0	.2029-03	.2449-03	.2449-03	.9000	.3494-05	.4217-05	.2554-02	.1917-01	523.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1232

OH84B 60-0 UPPER RH WING

(R4UJ40)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
614	1.020	7.940	39.96	.1384-01	207.9	1259.	92.49	.2236-01	.9868	3743.	.6525-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
614	.2436-01	.4020-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
614	5.1380	24.080	2279.0	.3978-03	.4804-03	.4804-03	.9000	.9690-05	.1170-04	.7096-02	.5317-01	526.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1233

OH84B 60-0 UPPER RH WING

(R4UJ40)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
596	2.000	7.980	40.02	.1392-01	434.7	1302.	94.76	.4525-01	2.017	3808.	.1289-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
596	.3503-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
596	5.1380	24.080	2279.0	.2248-02	.2705-02	.2705-02	.9000	.7873-04	.9476-04	.6057-01	.4525	532.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1234

OH84B 60-0 UPPER RH WING

(R4UJ40)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
578	3.027	7.990	40.06	.6985-02	669.7	1315.	95.49	.6916-01	3.091	3827.	.1955-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
578	.4343-01	.2333-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
578	5.1380	24.080	2279.0	.1147-01	.1384-01	.1384-01	.9000	.4982-03	.6009-03	.3832	2.843	545.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1235

OH84B 60-0 UPPER RH WING

(R4UJ41)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 5.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
626	.5125	7.900	39.93	.1380-01	101.2	1244.	92.25	.1125-01	.4913	3720.	.3290-03	.7423-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
626	.1715-01	.5654-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
626	5.1380	24.080	2279.0	.6941-03	.8393-03	.8393-03	.9000	.1190-04	.1439-04	.8556-02	.6416-01	524.9



DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1236

OH84B 60-O UPPER RH WING

(R4UJ41)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
612	1.002	7.940	39.96	.1384-01	206.0	1266.	93.00	.2216-01	.9778	3754.	.6430-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
612	.2427-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
612	5.1380	24.080	2279.0	.1793-03	.2161-03	.2161-03	.9000	.4351-05	.5246-05	.3228-02	.2422-01	523.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1237

OH84B 60-0 UPPER RH WING

(R4UJ41)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
598	2.004	7.980	40.02	.1392-01	434.4	1300.	94.62	.4522-01	2.016	3805.	.1290-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
598	.3501-01	.2869-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
598	5.1380	24.080	2279.0	.2311-02	.2780-02	.2780-02	.9000	.8089-04	.9733-04	.6226-01	.4656	530.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1238

OH84B 60-0 UPPER RH WING

(R4UJ41)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
584	2.991	7.990	40.06	.1397-01	669.5	1325.	96.21	.6914-01	3.090	3842.	.1940-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
584	.4348-01	.2344-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
584	5.1380	24.080	2279.0	.1831-01	.2202-01	.2202-01	.9000	.7960-03	.9577-03	.6246	4.648	540.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1239

OH84B 60-0 UPPER RH WING

(R4UJ42)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
620	.5135	7.900	39.96	.1383-01	100.1	1233.	91.43	.1112-01	.4858	3703.	.3282-03	.7357-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
620	.1703-01	.5656-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
620	5.1380	24.080	2279.0	.1781-03	.2156-03	.2156-03	.9000	.3032-05	.3671-05	.2147-02	.1610-01	524.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1240

OH84B 60-0 UPPER RH WING

(R4UJ42)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	O PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
618	.9977	7.940	39.97	.1384-01	204.8	1265.	92.93	.2203-01	.9721	3752.	.6397-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
618	.2419-01	.4062-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
618	5.1380	24.080	2279.0	.5782-03	.6977-03	.6977-03	.9000	.1399-04	.1688-04	.1033-01	.7742-01	526.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1241

OH84B 60-0 UPPER RH WING

(R4UJ42)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
592	2.010	7.980	40.00	.1736-01	434.8	1298.	94.47	.4526-01	2.018	3802.	.1293-02	.7602-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
592	.3501-01	.2865-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
592	5.1380	24.080	2279.0	.9943-02	.1197-01	.1197-01	.9000	.3481-03	.4192-03	.2667	1.993	531.8

DATE 23 FEB 80

OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1242

OH848 60-0 UPPER RH WING

(R4UJ42)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
590	2.993	7.990	40.06	.1397-01	671.4	1327.	96.36	.6934-01	3.098	3845.	.1942-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
590	.4356-01	.2343-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
590	5.1380	24.080	2279.0	.1721-01	.2069-01	.2069-01	.9000	.7494-03	.9013-03	.5902	4.394	539.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1243

OH84B 60-0 UPPER RH WING

(R4UJ43)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
628	.5138	7.900	39.96	.1730-01	101.2	1242.	92.10	.1125-01	.4914	3717.	.3296-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
628	.1715-01	.5648-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
628	5.1380	24.080	2279.0	.5032-03	.6082-03	.6082-03	.9000	.8629-05	.1043-04	.6203-02	.4657-01	522.7



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1244

OH84B 60-0 UPPER RH WING

(R4UJ43)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
610	1.015	7.940	39.97	.1038-01	207.4	1261.	92.64	.2231-01	.9844	3746.	.6499-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
610	.2434-01	.4029-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
610	5.1380	24.080	2279.0	.2510-03	.3029-03	.3029-03	.9000	.6109-05	.7370-05	.4500-02	.3376-01	524.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1245

OH84B 60-0 UPPER RH WING

(R4UJ43)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BOFLAP = 15.00    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
600	1.993	7.980	39.99	.1388-01	435.6	1307.	95.13	.4534-01	2.021	3815.	.1287-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
600	.3509-01	.2874-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R* TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
600	5.1380	24.080	2279.0	.3081-02	.3702-02	.3702-02	.9000	.1081-03	.1299-03	.8419-01	.6304	527.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1246

OH84B 60-0 UPPER RH WING

(R40J43)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
586	2.987	7.990	40.06	.1397-01	669.2	1326.	96.29	.6911-01	3.088	3843.	.1937-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
586	.4348-01	.2346-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
586	5.1380	24.080	2279.0	.1868-01	.2248-01	.2248-01	.9000	.8124-03	.9776-03	.6374	4.740	541.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1247

OH84B 60-0 UPPER RH WING

(R4UJ44)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BOFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
630	.5170	7.900	39.96	.1729-01	102.2	1245.	92.32	.1136-01	.4963	3721.	.3321-03	.7429-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
630	.1724-01	.5628-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
630	5.1380	24.080	2279.0	.5976-03	.7227-03	.7227-03	.9000	.1030-04	.1246-04	.7405-02	.5550-01	525.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1248

OH84B 60-0 UPPER RH WING

(R4UJ44)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 23.50    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
608	.9985	7.940	39.95	.1383-01	207.4	1275.	93.67	.2231-01	.9844	3767.	.6428-03	.7537-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
608	.2438-01	.4056-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
608	5.1380	24.080	2279.0	.3713-03	.4473-03	.4473-03	.8000	.9052-05	.1090-04	.8790-02	.5093-01	524.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1249

OH84B 60-0 UPPER RH WING

(R4UJ44)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
602	1.989	7.980	39.99	.1735-01	434.8	1307.	95.13	.4526-01	2.018	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
602	.3506-01	.2877-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
602	5.1380	24.080	2279.0	.3391-02	.4083-02	.4083-02	.9000	.1189-03	.1431-03	.9171-01	.6840	535.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1236

OH84B 60-0 UPPER RH WING

(R4UJ40)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
588	3.015	7.990	40.06	.1397-01	672.4	1322.	96.00	.6944-01	3.103	3838.	.1952-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
588	.4356-01	.2336-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
588	5.1380	24.080	2279.0	.1998-01	.2404-01	.2404-01	.9000	.8702-03	.1047-02	.6801	5.061	540.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1251

OH84B 60-0 UPPER RH WING

(R4UJ45)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
668	1.013	7.940	39.97	-.1038-01	207.0	1261.	92.64	.2226-01	.9825	3746.	.6487-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
668	.2431-01	.4033-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
668	5.1380	24.080	2279.0	.2548-02	.3080-02	.3080-02	.9000	.6195-04	.7488-04	.4522-01	.3381	530.7



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1252

OH84B 60-0 UPPER RH WING

(R40J45)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
688	1.999	7.980	40.00	-.6947-02	434.9	1303.	94.84	.4527-01	2.018	3810.	.1288-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
688	3504-01	.2871-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
688	5.1380	24.080	2279.0	.5794-02	.6968-02	.6968-02	.9000	.2037-03	.2441-03	.1570	1.175	529.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1253

OH84B 60-0 UPPER RH WING

(R4UJ45)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
702	2.996	7.990	40.05	-.6978-02	668.9	1323.	96.07	.6908-01	3.087	3839.	.1941-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
702	.4345-01	.2343-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
702	5.1380	24.080	2279.0	.1249-01	.1502-01	.1502-01	.9000	.5425-03	.6528-03	.4248	3.162	539.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1254

OH84B 60-0 UPPER RH WING

(R4UJ46)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
680	.5032	7.900	39.93	-.1034-01	100.7	1255.	93.06	.1119-01	.4888	3736.	.3245-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
680	.1713-01	.5699-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
680	5.1380	24.080	2279.0	.5921-03	.7158-03	.7158-03	.9000	.1014-04	.1226-04	.7363-02	.5510-01	528.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1255

OH84B 60-0 UPPER RH WING

(R4UJ46)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/1. /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
666	1.005	7.940	39.97	-.6927-02	206.0	1264.	92.86	.2216-01	.9778	3751.	.6440-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
666	.2426-01	.4048-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
666	5.1380	24.080	2279.0	.1270-02	.1536-02	.1536-02	.9000	.3082-04	.3726-04	.2256-01	.1685	531.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1256

OH84B 60-0 UPPER RH WING

(R4UJ46)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
690	2.005	7.980	40.00	-6947-02	436.2	1303.	94.84	.4541-01	2.024	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
690	.3509-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
690	5.1380	24.080	2279.0	.6692-02	.8061-02	.8061-02	.9000	.2348-03	.2829-03	.1801	1.343	535.7

DATE 23 FEB 80.

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1257

OH84B 60-0 UPPER RH WING

(R4UJ46)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
700	2.995	7.990	40.04	-6974-02	668.7	1323.	96.07	.6906-01	3.086	3839.	.1940-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
700	.4345-01	.2343-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
700	5.1380	24.080	2279.0	.1232-01	.1482-01	.1482-01	.9000	.5352-03	.6440-03	.4190	3.119	539.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1258

OH84B 60-0 UPPER RH WING

(R4UJ47)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 8.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
684	.5058	7.900	39.94	-.6904-02	101.0	1253.	92.91	.1122-01	.4902	3733.	.3259-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
684	.1775-01	.5685-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
684	5.1380	24.083	2279.0	.1198-02	.1448-02	.1448-02	.9000	.2054-04	.2483-04	.1489-01	.1115	527.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1259

OH84B 60-0 UPPER RH WING

(R4UJ47)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
670	1.020	7.940	39.97	-1.1039-01	207.6	1258.	92.42	.2233-01	.9854	3742.	.6521-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
670	.2434-01	.4021-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
670	5.1380	24.080	2279.0	.4945-03	.5974-03	.5974-03	.9000	.1203-04	.1454-04	.8788-02	.6581-01	527.5



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1260

OH84B 60-0 UPPER RH WING

(R4UJ47)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 8.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
686	1.998	7.980	39.98	-69.34-02	434.7	1303.	94.84	.4525-01	2.017	3810.	.1288-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
686	.3503-01	.2872-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
686	5.1380	24.080	2279.0	.5928-02	.7132-02	.7132-02	.9000	.2077-03	.2499-03	.1603	1.198	530.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1261

OH84B 60-0 UPPER RH WING

(R4UJ47)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
704	2.994	7.990	40.01	-.6957-02	669.4	1324.	96.14	.6913-01	3.089	3841.	.1941-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
704	.4348-01	.2343-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
704	5.1380	24.080	2279.0	.1019-01	.1225-01	.1225-01	.9000	.4429-03	.5324-03	.3490	2.603	535.7

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1262

OH84B 60-O UPPER RH WING

(R4UJ48)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
676	.5094	7.900	39.93	-.6898-02	101.6	1252.	92.84	.1129-01	.4931	3732.	.3281-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
676	.1720-01	.5666-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
676	5.1380	24.080	2279.0	.1444-02	.1747-02	.1747-02	.9000	.2485-04	.3005-04	.1796-01	.1344	528.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1263

OH84B 60-0 UPPER RH WING

(R4UJ49)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
674	1.007	7.940	39.97	-1.1039-01	206.5	1264.	92.86	.2221-01	.9801	3751.	.6456-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
674	.2429-01	.4043-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
674	5.1380	24.080	2279.0	.1033-02	.1246-02	.1246-02	.9000	.2508-04	.3028-04	.1847-01	.1384	527.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1264

OH84B 60-0 UPPER RH WING

(R4UJ48)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
692	2.004	7.980	40.00	-.6947-02	436.0	1303.	94.84	.4539-01	2.023	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
692	.3509-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
692	5.1380	24.080	2279.0	.6005-02	.7229-02	.7229-02	.9000	.2107-03	.2536-03	.1621	1.210	533.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1265

OH84B 60-0 UPPER RH WING

(R4UJ48)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
698	2.999	7.990	40.02	-.6958-02	669.0	1322.	96.00	.6909-01	3.087	3838.	.1942-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
698	.4345-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
698	5.1380	24.080	2279.0	.1127-01	.1355-01	.1355-01	.9000	.4896-03	.5889-03	.3838	2.859	537.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1260

OH84B 60-0 UPPER RH WING

(R4UJ48)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
678	.5076	7.900	39.96	-.1038-01	101.4	1254.	92.99	.1127-01	.4925	3735.	.3272-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
678	.1720-01	.5675-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
678	5.1380	24.080	2279.0	.1379-02	.1668-02	.1668-02	.9000	.2371-04	.2869-04	.1716-01	.1283	530.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1267

OH84B 60-0 UPPER RH WING

(R4UJ49)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BOFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
672	1.016	7.940	39.97	-.6925-02	206.9	1258.	92.42	.2225-01	.9821	3742.	.6499-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
672	.2430-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
672	5.1380	24.080	2279.0	.9386-03	.1133-02	.1133-02	.9000	.2280-04	.2754-04	.1668-01	.1249	526.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1268

OH84B 60-0 UPPER RH WING

(R4UJ49)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
694	1.988	7.980	39.99	-.6937-02	433.4	1305.	94.98	.4512-01	2.011	3813.	.1282-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
694	.3499-01	.2879-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
694	5.1380	24.080	2279.0	.7218-02	.8679-02	.8679-02	.9000	.2525-03	.3037-03	.1957	1.464	529.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1269

OH84B 60-0 UPPER RH WING

(R4UJ49)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 23.50 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
696	3.000	7.990	40.03	-6964-02	669.2	1322.	95.00	.6911-01	3.088	3838.	.1943-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
696	.4346-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
696	5.1380	24.080	2279.0	.1161-01	.1397-01	.1397-01	.9000	.5044-03	.6071-03	.3941	2.932	540.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1270

OH84B 60-0 UPPER RH WING

(R4UJ50)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
768	X10 6 .5101	7.900	39.98	-.3466-02	101.6	1251.	92.77	.1129-01	.4932	3730.	.3284-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
768	.1720-01	.5663-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
768	5.1380	24.080	2279.0	.1419-02	.1717-02	.1717-02	.9000	.2440-04	.2953-04	.1756-01	.1313	531.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1271

OH84B 60-0 UPPER RH WING

(R4UJ50)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
758	1.014	7.940	39.99	-4.651-06	208.4	1266.	93.00	.2242-01	.9894	3754.	.6506-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
758	.2441-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
758	5.1380	24.080	2279.0	.1752-02	.2119-02	.2119-02	.9000	.4277-04	.5173-04	.3124-01	.2330	535.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1272

OH84B 60-0 UPPER RH WING

(R4UJ50)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
756	2.005	7.980	40.03	-4.673-06	434.6	1300.	94.62	.4525-01	2.017	3805.	.1291-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
756	.3502-01	.2868-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
756	5.1380	24.080	2279.0	.4243-02	.5115-02	.5115-02	.9000	.1486-03	.1791-03	.1133	.8440	537.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1273

OH84B 60-0 UPPER RH WING

(R4UJ50)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BOFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
746	3.012	7.990	40.05	-.3495-02	670.4	1320.	95.85	.6923-01	3.094	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
746	.4348-01	.2337-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
746	5.1380	24.080	2279.0	.6777-02	.8154-02	.8154-02	.9000	.2947-03	.3546-03	.2302	1.714	538.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1274

OH84B 60-0 UPPER RH WING

(R4UJ51)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
766	.5080	7.900	39.98	-.3466-02	101.0	1250.	92.69	.1123-01	.4905	3729.	.3269-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
766	.1715-01	.5675-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
766	5.1380	24.080	2279.0	.9770-03	.1183-02	.1183-02	.9000	.1676-04	.2029-04	.1202-01	.8983-01	532.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1275

OH84B 60-0 UPPER RH WING

(R4UJ51)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 15.00 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
760	1.001	7.940	39.99	-4651-06	206.5	1269.	93.22	.2221-01	.9803	3758.	.6431-03	.7502-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
760	.2431-01	.4053-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
760	5.1380	24.080	2279.0	.1256-02	.1520-02	.1520-02	.9000	.3054-04	.3694-04	.2236-01	.1667	536.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1276

OH84B 60-0 UPPER RH WING

(R4UJ51)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BDFLAP = 15.00 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
754	2.004	7.980	40.06	-.4686-06	437.0	1305.	94.98	.4550-01	2.028	3813.	.1293-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
754	.3514-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
754	5.1380	24.080	2279.0	.4992-02	.6007-02	.6007-02	.9000	.1754-03	.2111-03	.1354	1.011	532.8

DATE 23 FEB 80

CH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1277

CH84B 60-0 UPPER RH WING

(R40J51)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
748	2.974	7.990	40.07	-4689-06	661.9	1320.	95.85	.6835-01	3.055	3835.	.1925-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R)
748	.4321-01	.2352-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
748	5.1380	24.080	2279.0	.8056-02	.9679-02	.9679-02	.9000	.3481-03	.4182-03	.2738	2.045	533.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1278

OH84B 60-0 UPPER RH WING

(R4UJ52)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
764	.5066	7.900	39.98	-.4647-06	100.9	1251.	92.77	.1121-01	.4898	3730.	.3262-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
764	.1714-01	.5682-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
764	5.1380	24.080	2279.0	.1544-02	.1869-02	.1869-02	.9000	.2646-04	.3203-04	.1905-01	.1424	530.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1279

OH84B 60-0 UPPER RH WING

(R4UJ52)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. P	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
762	1.002	7.940	39.99	-.4654-06	205.6	1265.	92.93	.2212-01	.9760	3752.	.6424-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
762	.2424-01	.4054-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
762	5.1380	24.080	2279.0	.1265-02	.1528-02	.1528-02	.9000	.3066-04	.3705-04	.2248-01	.1680	531.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1280

OH84B 60-0 UPPER RH WING

(R4UJ52)

UPPER RH WING

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
752	2.017	7.980	40.06	-.4685-06	436.2	1298.	94.47	.4541-01	2.024	3802.	.1297-02	.7602-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
752	.3507-01	.2860-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
752	5.1380	24.080	2279.0	.6766-02	.8156-02	.8156-02	.9000	.2373-03	.2861-03	.1807	1.347	536.2

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1281

OH84B 60-O UPPER RH WING

(R4UJ52)

UPPER RH WING

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
750	3.008	7.990	40.07	-.3496-02	673.1	1325.	96.21	.6951-01	3.106	3842.	.1950-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
750	.4360-01	.2338-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
750	5.1380	24.080	2279.0	.7651-02	.9199-02	.9199-02	.9000	.3336-03	.4011-03	.2626	1.957	537.5

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1282

OH84B 60-O LOWER BODYFLAP

(R4UK29)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
717	.5091	7.900	39.99	.3469-02	100.3	1242.	92.10	.1115-01	.4869	3717.	.3266-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
717	.1707-01	.5674-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
717	27.268	.92800	2113.0	.1877-01	.2271-01	.2271-01	.9000	.3205-03	.3876-03	.2298	1.723	524.8
717	27.268	1.8190	2191.0	.1964-01	.2376-01	.2376-01	.9000	.3352-03	.4055-03	.2400	1.927	525.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1283

OH84B 60-0 LOWER BODYFLAP

(R4UK29)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
715	1.013	7.940	39.99	.3469-02	207.7	1264.	92.86	.2234-01	.9860	3751.	.6495-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
715	.2435-01	.4031-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
715	27.268	.92800	2113.0	.1905-01	.2302-01	.2302-01	.9000	.4643-03	.5608-03	.3408	2.550	529.6
715	27.268	1.8190	2191.0	.1947-01	.2351-01	.2351-01	.9000	.4743-03	.5729-03	.3482	2.791	529.5



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1284

OH84B 60-0 LOWER BODYFLAP

(R4UK29)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
709	2.011	7.980	40.04	.1046-01	432.9	1294.	94.18	.4507-01	2.009	3796.	.1292-02	.7579-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
709	.3492-01	.2865-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
709	27.268	.92800	2113.0	.3308-01	.3991-01	.3991-01	.9000	.1155-02	.1394-02	.8736	6.509	537.5
709	27.268	1.8190	2191.0	.2800-01	.3377-01	.3377-01	.9000	.9778-03	.1179-02	.7399	5.909	536.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1285

OH84B 60-0 LOWER BODYFLAP

(R4UK29)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
BDFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
707	3.005	7.990	40.06	.6989-02	671.7	1324.	96.14	.6937-01	3.100	3841.	.1947-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
707	.4355-01	.2339-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
707	27.268	.92800	2113.0	.5700-01	.6886-01	.6886-01	.9000	.2482-02	.2999-02	1.908	14.09	555.0
707	27.268	1.8190	2191.0	.4490-01	.5421-01	.5421-01	.9000	.1956-02	.2361-02	1.509	11.95	552.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1286

OH84B 60-0 LOWER BODYFLAP

(R4UK30)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
719	.5000	7.900	39.98	.3465-02	100.3	1257.	93.21	.1115-01	.4869	3739.	.3227-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
719	.1711-01	.5715-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
719	27.268	.92800	2113.0	.2752-01	.3327-01	.3327-01	.9000	.4708-03	.5691-03	.3425	2.563	529.2
719	27.268	1.8190	2191.0	.3112-01	.3762-01	.3762-01	.9000	.5323-03	.6435-03	.3870	3.102	529.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1287

OH84B 60-0 LOWER BODYFLAP

(R4UK30)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
713	.9943	7.940	39.99	.6941-02	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
713	.2417-01	.4069-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
713	27.268	.92800	2113.0	.2579-01	.3240-01	.3240-01	.9000	.6475-03	.7831-03	.4734	3.532	534.6
713	27.268	1.8190	2191.0	.2980-01	.3604-01	.3604-01	.9000	.7204-03	.8712-03	.5266	4.210	534.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1288

OH84B 60-0 LOWER BODYFLAP

(R4UK30)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
711	1.999	7.990	40.06	.1048-01	436.8	1307.	95.13	.4548-01	2.027	3815.	.1290-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
711	.3514-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
711	27.268	.92800	2113.0	.7565-01	.9170-01	.9170-01	.9000	.2658-02	.3222-02	1.984	14.61	560.3
711	27.268	1.8190	2191.0	.6065-01	.7346-01	.7346-01	.9000	.2131-02	2581-02	1.596	12.61	557.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1289

OH84B 60-0 LOWER BODYFLAP

(R4UK30)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
705	3.029	7.990	40.07	.3498-02	670.2	1315.	95.49	.6921-01	3.093	3827.	.1956-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
705	.4345-01	.2332-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
705	27.268	.92800	2113.0	.1520	.1856	.1856	.9000	.6602-02	.8063-02	4.792	34.80	588.9
705	27.268	1.8190	2191.0	.1258	.1535	.1535	.9000	.5466-02	.6670-02	3.979	30.99	586.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1290

OH84B 60-0 LOWER BODYFLAP

(R4UK31)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
725	.4997	7.900	39.98	-.1733-01	100.5	1259.	93.36	.1117-01	.4878	3742.	.3228-03	.7513-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
725	.1713-01	.5716-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
725	27.268	.92800	2113.0	.1628-01	.1969-01	.1969-01	.9000	.2788-03	.3372-03	.2027	1.515	531.6
725	27.268	1.8190	2191.0	.1759-01	.2128-01	.2128-01	.9000	.3013-03	.3645-03	.2186	1.749	533.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1291

OH84B 60-0 LOWER BODYFLAP

(R4UK31)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
739	.9893	7.940	39.98	-.2427-01	204.0	1269.	93.22	.2194-01	.9684	3758.	.6353-03	.7502-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
739	.2416-01	.4077-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
739	27.268	.92800	2113.0	.1858-01	.2247-01	.2247-01	.9000	.4489-03	.5430-03	.3287	2.450	536.4
739	27.268	1.8190	2191.0	.1964-01	.2376-01	.2376-01	.9000	.4746-03	.5742-03	.3471	2.772	537.2



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1292

OH84B 60-0 LOWER BODYFLAP

(R4UK31)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	O PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
737	2.003	7.980	40.04	-.2093-01	434.1	1300.	94.62	.4520-01	2.015	3805.	.1289-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
737	.3500-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
737	27.268	.92800	2113.0	.3460-01	.4181-01	.4181-01	.9000	.1211-02	.1463-02	.9130	6.774	545.7
737	27.268	1.8190	2191.0	.2922-01	.3530-01	.3530-01	.9000	.1023-02	.1235-02	.7713	6.133	545.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1293

OH84B 60-0 LOWER BODYFLAP

(R4UK31)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
727	3.035	7.990	40.06	-.2097-01	670.9	1314.	95.41	.6928-01	3.096	3826.	.1960-02	.7678-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
727	.4347-01	.2330-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
727	27.268	.92800	2113.0	.5460-01	.6590-01	.6590-01	.9000	.2373-02	.2865-02	1.819	13.48	547.4
727	27.268	1.8190	2191.0	.4077-01	.4916-01	.4916-01	.9000	.1772-02	.2137-02	1.363	10.84	544.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1294

OH84B 60-0 LOWER BODYFLAP

(R4UK32)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
723	.4957	7.900	39.97	-1.1731-01	100.1	1263.	93.66	.1113-01	.4862	3748.	.3207-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
723	.1711-01	.5736-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
723	27.268	.92800	2113.0	.2540-01	.3068-01	.3068-01	.9000	.4345-03	.5248-03	.3190	2.388	528.6
723	27.268	1.8190	2191.0	.2730-01	.3297-01	.3297-01	.9000	.4670-03	.5640-03	.3431	2.752	528.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1295

OH84B 60-0 LOWER BODYFLAP

(R4UK32)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
741	.9943	7.940	39.99	-.2082-01	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
741	.2417-01	.4069-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
741	27.268	.92800	2113.0	.2331-01	.2822-01	.2822-01	.9000	.5634-03	.6821-03	.4098	3.052	538.3
741	27.268	1.8190	2191.0	.2530-01	.3064-01	.3064-01	.9000	.6114-03	.7405-03	.4438	3.538	539.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1296

OH84B 60-0 LOWER BODYFLAP

(R4UK32)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
735	1.997	7.980	40.06	-.2095-01	434.8	1304.	94.91	.4527-01	2.018	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
735	.3504-01	.2873-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
735	27.268	.92800	2113.0	.5690-01	.6880-01	.6880-01	.9000	.1994-02	.2411-02	1.504	11.14	549.6
735	27.268	1.8190	2191.0	.4802-01	.5803-01	.5803-01	.9000	.1683-02	.2034-02	1.271	10.09	548.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1297

OH84B 60-0 LOWER BODYFLAP

(R4UK32)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
729	3.003	7.990	40.07	-.2097-01	668.3	1320.	95.85	.6901-01	3.084	3835.	.1943-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
729	.4342-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
729	27.268	.92800	2113.0	.1056	.1281	.1281	.9000	.4585-02	.5563-02	3.443	25.25	568.9
729	27.268	1.8190	2191.0	.8199-01	.9936-01	.9936-01	.9000	.3560-02	.4314-02	2.687	21.16	564.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1298

OH84B 60-0 LOWER BODYFLAP

(R4UK33)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
721	.5028	7.900	39.98	-.1386-01	100.9	1257.	93.21	.1121-01	.4897	3739.	.3245-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
721	.1715-01	.5699-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
721	27.268	.92800	2113.0	.2821-01	.3413-01	.3413-01	.9000	.4839-03	.5854-03	.3506	2.619	532.2
721	27.268	1.8190	2191.0	.3149-01	.3809-01	.3809-01	.9000	.5401-03	.6534-03	.3912	3.131	532.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1299

OH84B 60-0 LOWER BODYFLAP

(R4UK33)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
743	1.018	7.940	39.99	-.2081-01	209.4	1267.	93.08	.2253-01	.9941	3755.	.6532-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
743	.2447-01	.4021-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
743	27.268	.92800	2113.0	.2687-01	.3257-01	.3257-01	.9000	.6577-03	.7970-03	.4766	3.543	542.0
743	27.268	1.8190	2191.0	.3021-01	.3662-01	.3662-01	.9000	.7393-03	.8963-03	.5348	4.256	543.3



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1300

OH84B 60-0 LOWER BODYFLAP

(R4UK33)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. P	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
733	1.990	7.980	40.04	-.2091-01	433.8	1305.	94.98	.4516-01	2.013	3813.	.1283-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
733	.3501-01	.2877-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
733	27.268	.92800	2113.0	.7779-01	.9437-01	.9437-01	.9000	.2723-02	.3304-02	2.023	14.89	561.8
733	27.268	1.8190	2191.0	.6099-01	.7394-01	.7394-01	.9000	.2135-02	.2589-02	1.591	12.56	559.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1301

OH84B 60-0 LOWER BODYFLAP

(R4UK33)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
731	3.017	7.990	40.06	-2096-01	671.5	1320.	95.85	.6935-01	3.099	3835.	.1953-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
731	.4352-01	.2335-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
731	27.268	.92800	2113.0	.1522	.1855	.1855	.9000	.6622-02	.8071-02	4.866	35.41	584.8
731	27.268	1.8190	2191.0	.1237	.1506	.1506	.9000	.5382-02	.6553-02	3.973	31.03	581.4

DATE 23 FEB 80

OH84E MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1302

OH84B 60-0 LOWER BODYFLAP

(R4UK34)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
633	.5017	7.900	39.93	-.3449-02	100.0	1252.	92.84	.1112-01	.4857	3732.	.3232-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
633	.1707-01	.5709-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
633	7.268	.92800	2113.0	.1800-01	.2179-01	.2179-01	.9000	.3072-03	.3721-03	.2208	1.649	533.1
633	7.268	1.8190	2191.0	.1940-01	.2349-01	.2349-01	.9000	.3311-03	.4011-03	.2376	1.900	534.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1303

OH84B 60-0 LOWER BODYFLAP

(R4UK34)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
659	1.001	7.940	39.97	-.4645-06	206.7	1270.	93.30	.2223-01	.9811	3760.	.6431-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
659	.2432-01	.4053-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
659	27.268	.92800	2113.0	.1728-01	.2085-01	.2085-01	.9000	.4202-03	.5071-03	.3114	2.331	528.5
659	27.268	1.8190	2191.0	.1981-01	.2270-01	.2270-01	.9000	.4576-03	.5522-03	.3392	2.720	528.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1304

OH84B 60-0 LOWER BODYFLAP

(R4UK34)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
647	1.985	7.980	40.00	.3471-02	436.3	1312.	95.49	.4542-01	2.025	3823.	.1284-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
647	.3514-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
647	27.268	.92800	2113.0	.3387-01	.4086-01	.4086-01	.9000	.1190-02	.1436-02	.9132	6.780	544.5
647	27.268	1.8190	2191.0	.2641-01	.3183-01	.3183-01	.9000	.9281-03	.1119-02	.7149	5.695	541.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1305

OH84B 60-0 LOWER BODYFLAP

(R4UK34)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
649	X10 6 3.013	7.990	40.03	.6967-02	670.5	1320.	95.85	.6924-01	3.094	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
649	.4349-01	.2337-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
649	27.268	.92800	2113.0	.5990-01	.7238-01	.7238-01	.9000	.2605-02	.3148-02	1.993	14.72	554.5
649	27.268	1.8190	2191.0	.4352-01	.5253-01	.5253-01	.9000	.1893-02	.2284-02	1.457	11.56	550.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1306

OH84B 60-0 LOWER BODYFLAP

(R4UK35)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
635	.4992	7.900	39.96	-.3458-02	99.17	1249.	92.62	.1102-01	.4815	3727.	.3212-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
635	.1699-01	.5725-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
635	27.268	.92800	2113.0	.2449-01	.2964-01	.2964-01	.9000	.4160-03	.5037-03	.2986	2.232	531.0
635	27.268	1.8190	2191.0	.2690-01	.3255-01	.3255-01	.9000	.4570-03	.5530-03	.3289	2.637	529.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1307

OH84B 60-0 LOWER BODYFLAP

(R4UK35)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BOFLAP = -5.000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
657	.9860	7.940	39.99	-1.4654-06	202.4	1265.	92.93	.2177-01	.9606	3752.	.6322-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
657	.2405-01	.4086-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
657	27.268	.92800	2113.0	.2341-01	.2834-01	.2834-01	.9000	.5631-03	.6816-03	.4095	3.051	537.4
657	27.268	1.8190	2191.0	.2565-01	.3106-01	.3106-01	.9000	.6170-03	.7471-03	.4481	3.576	538.3



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1308

OH84B 60-0 LOWER BODYFLAP

(R4UK35)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
645	1.997	7.980	40.01	-.4664-06	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
645	.3502-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
645	27.268	.92800	2113.0	.6171-01	.7480-01	.7480-01	.9000	.2161-02	.2619-02	1.609	11.86	558.1
645	27.268	1.8190	2191.0	.4611-01	.5586-01	.5586-01	.9000	.1615-02	.1956-02	1.206	9.536	556.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1309

OH84B 60-0 LOWER BODYFLAP

(R4UK35)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = -5.000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. P	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
655	2.999	7.990	40.01	.6952-02	675.0	1330.	96.58	.6970-01	3.115	3849.	.1948-02	.7772-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
655	.4369-01	.2340-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
655	27.268	.92800	2113.0	.1042	.1264	.1264	.9000	.4553-02	.5522-02	3.450	25.26	572.0
655	27.268	1.8190	2191.0	.8430-01	.1022	.1022	.9000	.3683-02	.4463-02	2.803	22.02	568.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1310

OH84B 60-0 LOWER BODYFLAP

(R4UK36)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
637	.5033	7.900	39.93	-.6897-02	99.99	1249.	92.62	.1111-01	.4855	3727.	.3238-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
637	.1706-01	.5702-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
637	27.268	.92800	2113.0	.2650-01	.3213-01	.3213-01	.9000	.4521-03	.5481-03	.3222	2.402	536.0
637	27.268	1.8190	2191.0	.3054-01	.3703-01	.3703-01	.9000	.5210-03	.6318-03	.3709	2.962	536.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1311

OH84B 60-0 LOWER BODYFLAP

(R4UK36)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
663	1.016	7.940	39.97	-4643-06	207.3	1260.	92.56	.2230-01	.9840	3745.	.6501-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
663	.2433-01	.4028-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
663	27.268	.92800	2113.0	.2588-01	.3135-01	.3135-01	.9000	.6294-03	.7626-03	.4540	3.381	538.5
663	27.268	1.8190	2191.0	.3000-01	.3634-01	.3634-01	.9000	.7297-03	.8841-03	.5266	4.203	538.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1312

OH84B 60-0 LOWER BODYFLAP

(R4UK36)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
643	2.006	7.980	39.98	-1.1040-01	434.5	1299.	94.54	.4523-01	2.016	3804.	.1291-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
643	.3501-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
643	27.268	.92900	2113.0	.7757-01	.9420-01	.9420-01	.9000	.2715-02	.3298-02	1.997	14.69	563.3
643	27.268	1.8190	2191.0	.6409-01	.7782-01	.7782-01	.9000	.2243-02	.2724-02	1.651	13.01	562.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1313

OH84B 60-0 LOWER BODYFLAP

(R4UK36)

LHR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
653	2.998	7.990	40.02	.6962-02	672.4	1327.	96.36	.6944-01	3.103	3845.	.1945-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
653	.4359-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
653	27.268	.92800	2113.0	.1513	.1845	.1845	.9000	.6595-02	.8044-02	4.855	35.22	590.5
653	27.268	1.8190	2191.0	.1248	.1521	.1521	.9000	.5439-02	.6629-02	4.023	31.32	587.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1314

OH84B 60-0 LOWER BODYFLAP

(R4UK37)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
639	.5035	7.900	39.95	-.1383-01	99.79	1247.	92.47	.1109-01	.4845	3724.	.3237-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	SIN NO REF(R) =.0175
639	.1704-01	.5702-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
639	27.268	.92800	2113.0	.2788-01	.3380-01	.3380-01	.9000	.4750-03	.5760-03	.3378	2.520	535.5
639	27.268	1.8190	2191.0	.3121-01	.3785-01	.3785-01	.9000	.5318-03	.6449-03	.3781	3.021	535.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1315

OH84B 60-0 LOWER BODYFLAP

(R4UK37)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
661	1.021	7.940	39.97	-.4644-06	206.8	1254.	92.12	.2224-01	.9816	3736.	.6517-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
661	.2428-01	.4021-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
661	27.268	.92800	2113.0	.2495-01	.3030-01	.3030-01	.9000	.6058-03	.7357-03	.4302	3.195	543.6
661	27.268	1.8190	2191.0	.2984-01	.3624-01	.3624-01	.9000	.7245-03	.8797-03	.5147	4.097	543.2



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1316

OH84B 60-0 LOWER BODYFLAP

(R4UK37)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BOFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
641	2.028	7.980	39.99	-.6938-02	435.7	1292.	94.03	.4536-01	2.022	3794.	.1302-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
641	.3502-01	.2854-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
641	27.268	.92800	2113.0	.1222	.1488	.1488	.9000	.4281-02	.5211-02	3.099	22.74	567.7
641	27.268	1.8190	2191.0	.1014	.1233	.1233	.9000	.3551-02	.4319-02	2.579	20.31	565.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1317

OH84B 60-0 LOWER BODYFLAP

(R4UK37)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
651	2.990	7.990	40.05	.3490-02	671.4	1328.	96.43	.6934-01	3.098	3846.	.1941-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
651	.4356-01	.2344-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
651	27.268	.92800	2113.0	.2122	.2596	.2596	.9000	.9243-02	.1131-01	6.720	48.51	600.7
651	27.268	1.8190	2191.0	.1849	.2260	.2260	.9000	.8053-02	.9846-02	5.872	45.47	598.5

DATE 23 FEB 80

OH843 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1318

OH84B 60-0 LOWER BODYFLAP

(R4UK39)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
631	.5096	7.900	39.97	.1384-01	101.0	1247.	92.47	.1122-01	.4903	3724.	.3276-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
631	.1714-01	.5668-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
631	27.268	.92800	2113.0	.1756-01	.2125-01	.2125-01	.9000	.3010-03	.3643-03	.2160	1.616	529.2
631	27.268	1.8190	2191.0	.1926-01	.2332-01	.2332-01	.9000	.3301-03	.3997-03	.2365	1.895	530.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1319

OH84B 60-0 LOWER BODYFLAP

(R4UK38)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
605	1.013	7.940	39.97	.1385-01	206.2	1258.	92.42	.2218-01	.9787	3742.	.6477-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
605	.2425-01	.4035-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
605	27.268	.92800	2113.0	.1959-01	.2367-01	.2367-01	.9000	.4751-03	.5741-03	.3465	2.594	528.3
605	27.268	1.8190	2191.0	.2138-01	.2583-01	.2583-01	.9000	.5185-03	.6266-03	.3781	3.032	528.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1320

OH84B 60-0 LOWER BODYFLAP

(R4UK38)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
603	2.009	7.980	39.99	.1734-01	434.1	1297.	94.40	.4519-01	2.014	3801.	.1292-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
603	.3498-01	.2866-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
603	27.268	.92800	2113.0	.3791-01	.4576-01	.4576-01	.9000	.1326-02	.1601-02	1.003	7.463	540.3
603	27.268	1.8190	2191.0	.3118-01	.3760-01	.3760-01	.9000	.1091-02	.1315-02	.8273	6.602	538.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1321

OH84B 60-0 LOWER BODYFLAP

(R4UK38)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
581	2.994	7.990	40.05	.1047-01	671.7	1327.	96.36	.6937-01	3.100	3845.	.1943-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
581	.4357-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
581	27.268	.92800	2113.0	.6445-01	.7793-01	.7793-01	.9000	.2808-02	.3395-02	2.154	15.87	559.6
581	27.268	1.8190	2191.0	.4435-01	.5354-01	.5354-01	.9000	.1932-02	.2332-02	1.494	11.83	553.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1322

OH84B 60-0 LOWER BODYFLAP

(R4UK39)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
621	.4994	7.900	39.93	.1380-01	97.55	1235.	91.58	.1084-01	.4736	3706.	.3195-03	.7369-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
621	.1682-01	.5733-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
621	27.268	.92800	2113.0	.2348-01	.2845-01	.2845-01	.9000	.3949-03	.4786-03	.2789	2.087	528.5
621	27.268	1.8190	2191.0	.2582-01	.3129-01	.3129-01	.9000	.4342-03	.5263-03	.3064	2.456	529.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1323

OH84B 60-0 LOWER BODYFLAP

(R4UK39)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
615	1.002	7.940	39.97	.1384-01	204.7	1261.	92.64	.2202-01	.9716	3746.	.6415-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
615	.2418-01	.4055-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TC	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
615	27.268	.92800	2113.0	.2565-01	.3103-01	.3103-01	.9000	.6202-03	.7502-03	.4509	3.366	533.6
615	27.268	1.8190	2191.0	.2587-01	.3129-01	.3129-01	.9000	.6254-03	.7565-03	.4549	3.639	533.3



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1324

OH84B 60-0 LOWER BODYFLAP

(R4UK39)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
593	2.004	7.980	40.00	.1389-01	436.0	1303.	94.84	.4539-01	2.023	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
593	.3509-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
593	27.268	.92800	2113.0	.5328-01	.6447-01	.6447-01	.9000	.1869-02	.2262-02	1.404	10.38	551.9
593	27.268	1.8190	2191.0	.4349-01	.5258-01	.5258-01	.9000	.1526-02	.1845-02	1.150	9.124	549.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1325

OH84B 60-0 LOWER BODYFLAP

(R4UK39)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
579	2.997	7.990	40.02	.1044-01	670.8	1325.	96.21	.6927-01	3.096	3842.	.1943-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
579	.4353-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
579	27.268	.92800	2113.0	.1171	.1426	.1426	.9000	.5098-02	.6207-02	3.780	27.53	583.3
579	27.268	1.8190	2191.0	.8551-01	.1039	.1039	.9000	.3722-02	.4523-02	2.783	21.79	576.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1326

OH84B 60-0 LOWER BODYFLAP

(R4UK40)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
623	.4983	7.900	39.97	.1384-01	99.83	1256.	93.14	.1109-01	.4847	3737.	.3215-03	.7495-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
623	.1706-01	.5726-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
623	27.268	.92800	2113.0	.2453-01	.2968-01	.2968-01	.9000	.4186-03	.5064-03	.3032	2.266	531.4
623	27.268	1.8190	2191.0	.2985-01	.3613-01	.3613-01	.9000	.5094-03	.6165-03	.3683	2.947	532.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1327

OH84B 60-0 LOWER BODYFLAP

(R4UK40)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
613	1.004	7.940	39.97	.1731-01	204.8	1260.	92.56	.2203-01	.9721	3745.	.6423-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
613	.2418-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
613	27.268	.92800	2113.0	.2670-01	.3235-01	.3235-01	.9000	.6457-03	.7822-03	.4660	3.471	538.0
613	27.268	1.8190	2191.0	.3007-01	.3642-01	.3642-01	.9000	.7271-03	.8807-03	.5250	4.191	537.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1329

OH84B 60-0 LOWER BODYFLAP

(R4UK40)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
595	2.001	7.980	40.02	.1392-01	435.8	1304.	94.91	.4537-01	2.022	3811.	.1290-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
595	.3508-01	.2869-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
595	27.268	.92800	2113.0	.7680-01	.9323-01	.9323-01	.9000	.2694-02	.3271-02	1.994	14.66	563.8
595	27.268	1.8190	2191.0	.6202-01	.7523-01	.7523-01	.9000	.2176-02	.2639-02	1.614	12.73	561.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1329

OH84B 60-0 LOWER BODYFLAP

(R4UK40)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
577	3.019	7.990	40.06	.6989-02	670.3	1318.	95.71	.6922-01	3.093	3832.	.1952-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN. NO REF (R) =.0175
577	.4347-01	.2335-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO.	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
577	27.268	.92800	2113.0	.1512	.1847	.1847	.9000	.6574-02	.8030-02	4.777	34.65	591.0
577	27.268	1.8190	2191.0	.1323	.1616	.1616	.9000	.5752-02	.7026-02	4.178	32.47	591.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1330

OH84B 60-0 LOWER BODYFLAP

(R4UK41)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 5.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
625	.5056	7.900	39.96	.1729-01	100.1	1246.	92.40	.1112-01	.4859	3723.	.3249-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
625	.1706-01	.5691-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
625	27.268	.92800	2113.0	.2358-01	.2859-01	.2859-01	.9000	.4023-03	.4878-03	.2861	2.135	534.5
625	27.268	1.8190	2191.0	.3048-01	.3696-01	.3696-01	.9000	.5200-03	.6306-03	.3694	2.953	535.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1331

OH84B 60-0 LOWER BODYFLAP

(R4UK41)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
611	.9967	7.940	39.96	.1384-01	204.6	1265.	92.93	.2201-01	.9711	3752.	.6391-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
611	.2418-01	.4064-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
611	27.268	.92800	2113.0	.2761-01	.3345-01	.3345-01	.9000	.5677-03	.8090-03	.4835	3.597	540.6
611	27.268	1.8190	2191.0	.3207-01	.3885-01	.3885-01	.9000	.7755-03	.9396-03	.5617	4.477	540.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1332

OH84B 60-0 LOWER BODYFLAP

(R4UK41)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
597	2.013	7.980	40.02	.1392-01	434.8	1297.	94.40	.4526-01	2.018	3801.	.1294-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
597	.3501-01	.2963-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
597	27.268	.92800	2113.0	.1195	.1454	.1454	.9000	.4183-02	.5091-02	3.042	22.30	569.5
597	27.268	1.8190	2191.0	.1088	.1324	.1324	.9000	.3810-02	.4636-02	2.771	21.77	569.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1333

OH84B 60-0 LOWER BODYFLAP

(R4UK41)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
583	2.999	7.990	40.05	.1395-01	671.1	1325.	96.21	.6930-01	3.097	3842.	.1944-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
583	.4354-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
583	27.268	.92800	2113.0	.2190	.2685	.2685	.9000	.9535-02	.1169-01	6.856	49.37	605.6
583	27.268	1.8190	2191.0	.1871	.2292	.2292	.9000	.8147-02	.9979-02	5.879	45.42	603.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1334

OH84B 60-0 LOWER BODYFLAP

(R4UK42)

LWR. BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
619	.5067	7.900	39.95	.1383-01	99.45	1239.	91.88	.1105-01	.4823	3712.	.3247-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
619	.1699-01	.5689-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
619	27.268	.92800	2113.0	.2005-01	.2434-01	.2434-01	.9000	.3406-03	.4135-03	.2393	1.784	536.1
619	27.268	1.8190	2191.0	.2614-01	.3173-01	.3173-01	.9000	.4442-03	.5392-03	.3123	2.495	535.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1335

OH84B 60-0 LOWER BODYFLAP

(R4UK42)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = 8.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
617	1.002	7.940	39.97	.1731-01	206.2	1267.	93.08	.2218-01	.9787	3755.	.6431-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
617	.2428-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
617	27.268	.92800	2113.0	.3027-01	.3671-01	.3671-01	.9000	.7351-03	.8916-03	.5306	3.938	544.9
617	27.268	1.8190	2191.0	.3098-01	.3756-01	.3756-01	.9000	.7523-03	.9122-03	.5436	4.325	544.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1338

OH84B 60-0 LOWER BODYFLAP

(R4UK42)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 8.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
591	1.986	7.980	40.01	.1391-01	433.9	1306.	95.05	.4517-01	2.013	3814.	.1283-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
591	.3501-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
591	27.268	.92800	2113.0	.1441	.1757	.1757	.9000	.5044-02	.6151-02	3.661	26.70	579.9
591	27.268	1.8190	2191.0	.1179	.1437	.1437	.9000	.4129-02	.5031-02	3.006	23.51	577.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1337

OH84B 60-0 LOWER BODYFLAP

(R4UK42)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
589	3.003	7.990	40.07	.1748-01	673.7	1327.	96.36	.6957-01	3.109	3845.	.1949-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
589	.4363-01	.2339-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
589	27.268	.92800	2113.0	.2428	.2986	.2986	.9000	.1059-01	.1303-01	7.510	53.77	617.7
589	27.268	1.8190	2191.0	.2102	.2584	.2584	.9000	.9170-02	.1128-01	6.514	50.00	616.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1338

OH84B 60-0 LOWER BODYFLAP

(R4UK43)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
627	.5147	7.900	39.95	.1383-01	101.4	1242.	92.10	.1127-01	.4923	3717.	.3302-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
627	.1716-01	.5643-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
627	27.268	.92800	2113.0	.4373-01	.5321-01	.5321-01	.9000	.7506-03	.9133-03	.5232	3.884	544.6
627	27.268	1.8190	2191.0	.4126-01	.5020-01	.5020-01	.9000	.7082-03	.8616-03	.4937	3.928	544.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1339

OH84B 60-0 LOWER BODYFLAP

(R4UK43)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 15.00 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
609	1.024	7.940	39.98	.1386-01	209.1	1261.	92.64	.2249-01	.9925	3746.	.6553-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
609	.2443-01	.4012-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
609	27.268	.92800	2113.0	.1543	.1884	.1884	.9000	.3770-02	.4604-02	2.623	19.28	564.8
609	27.268	1.8190	2191.0	.1210	.1477	.1477	.9000	.2955-02	.3609-02	2.057	16.20	564.6



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1340

OH84B 60-0 LOWER BODYFLAP

(R4UK43)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
599	1.990	7.980	40.04	.1744-01	435.0	1307.	95.13	.4528-01	2.019	3815.	.1285-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
599	.3506-01	.2876-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
599	27.268	.92800	2113.0	.3317	.4089	.4089	.9000	.1163-01	.1434-01	8.059	57.81	613.9
599	27.268	1.8190	2191.0	.2913	.3590	.3590	.9000	.1021-01	.1259-01	7.075	54.37	613.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1341

OH84B 60-0 LOWER BODYFLAP

(R4UK43)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
585	2.982	7.990	40.06	.1397-01	669.7	1328.	96.43	.6916-01	3.091	3846.	.1936-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
585	.4351-01	.2347-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
585	27.268	.92800	2113.0	.3374	.4187	.4187	.9000	.1468-01	.1822-01	10.03	70.90	644.2
585	27.268	1.8190	2191.0	.2928	.3630	.3630	.9000	.1274-01	.1579-01	8.748	66.35	640.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1342

OH84B 60-0 LOWER BODYFLAP

(R4UK44)

LWR BODYFLAP

PARAMETRIC DATA

MACH. = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BOFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
629	.5153	7.900	39.96	.1729-01	101.8	1244.	92.25	.1131-01	.4940	3720.	.3309-03	.7423-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
629	.1720-01	.5638-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
629	27.268	.92800	2113.0	.1109	.1353	.1353	.9000	.1907-02	.2327-02	1.316	9.721	553.9
629	27.268	1.8190	2191.0	.1123	.1370	.1370	.9000	.1931-02	.2357-02	1.330	10.53	554.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1343

OH84B 60-0 LOWER BODYFLAP

(R4UK44)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
607	.9872	7.940	39.96	.1383-01	205.3	1276.	93.74	.2208-01	.9744	3769.	.6358-03	.7543-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
607	.2426-01	.4078-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
607	27.268	.92800	2113.0	.2880	.3531	.3531	.9000	.6986-02	.8567-02	4.831	35.16	584.2
607	27.268	1.8190	2191.0	.2711	.3327	.3327	.9000	.6577-02	.8071-02	4.532	35.30	586.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1344

OH84B 60-0 LOWER BODYFLAP

(R4UK44)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
601	1.999	7.980	39.99	.1388-01	435.3	1304.	94.91	.4531-01	2.020	3811.	.1289-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
601	.3506-01	.2871-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
601	27.268	.92800	2113.0	.4639	.5795	.5795	.9000	.1626-01	.2032-01	10.63	74.90	650.2
601	27.268	1.8190	2191.0	.4095	.5116	.5116	.9000	.1436-01	.1794-01	9.375	70.78	650.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1345

OH84B 60-0 LOWER BODYFLAP

(R4UK44)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BOFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
587	3.006	7.990	40.06	.1398-01	671.3	1323.	96.07	.6933-01	3.098	3839.	.1948-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
587	.4353-01	.2339-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
587	27.268	.92800	2113.0	.4433	.5559	.5559	.9000	.1930-01	.2420-01	12.60	87.95	669.9
587	27.268	1.8190	2191.0	.3875	.4858	.4858	.9000	.1687-01	.2115-01	11.03	82.54	668.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1346

OH84B 60-0 LOWER BODYFLAP

(R4UK45)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
681	.5058	7.900	39.93	-.1034-01	101.2	1255.	93.06	.1125-01	.4913	3736.	.3262-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
681	.1718-01	.5684-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
681	27.268	.92800	2113.0	.2010-01	.2431-01	.2431-01	.9000	.3452-03	.4176-03	.2499	1.868	530.8
681	27.268	1.8190	2191.0	.2571-01	.3110-01	.3110-01	.9000	.4416-03	.5342-03	.3194	2.558	531.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1347

OH84B 60-0 LOWER BODYFLAP

(R4UK45)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
667	1.005	7.940	39.96	-.6922-02	205.3	1261.	92.64	.2208-01	.9744	3746.	.6433-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
667	.2421-01	.4049-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
667	27.268	.92800	2113.0	.2072-01	.2507-01	.2507-01	.9000	.5017-03	.6070-03	.3647	2.722	533.8
667	27.268	1.8190	2191.0	.2683-01	.3248-01	.3248-01	.9000	.6496-03	.7864-03	.4710	3.763	535.7



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1348

OH84B 60-0 LOWER BODYFLAP

(R4UK45)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = -5.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
687	1.992	7.980	40.00	-.6947-02	434.9	1306.	95.05	.4527-01	2.018	3814.	.1285-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
687	.3505-01	.2875-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
687	27.268	.92800	2113.0	.5109-01	.6175-01	.6175-01	.9000	.1791-02	.2165-02	1.355	10.04	549.0
687	27.268	1.8190	2191.0	.4634-01	.5601-01	.5601-01	.9000	.1624-02	.1963-02	1.228	9.742	549.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1349

OH84B 60-0 LOWER BODYFLAP

(R4UK45)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = -5.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
701	2.998	7.990	40.05	-.6978-02	669.5	1323.	96.07	.6914-01	3.090	3839.	.1942-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
701	.4347-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
701	27.268	.92800	2113.0	.1104	.1343	.1343	.9000	.4800-02	.5840-02	3.564	25.99	580.2
701	27.268	1.8190	2191.0	.8854-01	.1077	.1077	.9000	.3849-02	.4681-02	2.865	22.40	578.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1350

OH84B 60-0 LOWER BODYFLAP

(R4UK46)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
679	.5025	7.900	39.97	-.6923-02	100.5	1255.	93.06	.1117-01	.4881	3736.	.3241-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
679	.1712-01	.5703-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
679	27.268	.92800	2113.0	.2156-01	.2610-01	.2610-01	.9000	.3691-03	.4458-03	.2662	1.988	533.4
679	27.268	1.8190	2191.0	.2826-01	.3422-01	.3422-01	.9000	.4839-03	.5859-03	.3485	2.786	534.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1351

OH84B 60-0 LOWER BODYFLAP

(R4UK46)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 EDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
665	1.003	7.940	39.97	-1.1732-01	205.8	1265.	92.93	.2213-01	.9768	3752.	.6429-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
665	.2425-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
665	27.268	.92800	2113.0	.2147-01	.2605-01	.2605-01	.9000	.5206-03	.6318-03	.3742	2.776	546.0
665	27.268	1.8190	2191.0	.2982-01	.3620-01	.3620-01	.9000	.7232-03	.8780-03	.5197	4.120	547.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1352

OH84B 60-0 LOWER BODYFLAP

(R4UK46)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	C PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
689	1.996	7.980	39.99	-1041-01	434.3	1303.	94.84	.4521-01	2.015	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
689	.3502-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
689	27.268	.92800	2113.0	.7401-01	.8977-01	.8977-01	.9000	.2592-02	.3144-02	1.923	14.16	560.6
689	27.268	1.8190	2191.0	.6666-01	.8089-01	.8089-01	.9000	.2334-02	.2833-02	1.728	13.62	562.4

DATE 23 FEB 80.

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1353

OH84B 60-0 LOWER BODYFLAP

(R4UK46)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
699	2.999	7.990	40.05	-.6984-02	670.4	1324.	96.14	.6923-01	3.094	3841.	.1944-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
699	.4351-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
699	27.268	.92800	2113.0	.1581	.1932	.1932	.9000	.6877-02	.8407-02	5.003	36.20	596.2
699	27.268	1.8190	2191.0	.1283	.1567	.1567	.9000	.5582-02	.6820-02	4.070	31.58	594.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1354

OH84B 60-0 LOWER BODYFLAP

(R4UK47)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 8.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
683	.5030	7.900	39.93	-.6896-02	100.5	1254.	92.99	.1117-01	.4880	3735.	.3242-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
683	.1712-01	.5700-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
683	27.268	.92800	2113.0	.1427-01	.1729-01	.1729-01	.9000	.2442-03	.2959-03	.1752	1.306	536.2
683	27.268	1.8190	2191.0	.2299-01	.2787-01	.2787-01	.9000	.3935-03	.4770-03	.2819	2.250	537.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1355

OH84B 60-0 LOWER BODYFLAP

(R4UK47)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
669	1.010	7.940	39.95	-1.1037-01	205.9	1259.	92.49	.2215-01	.9773	3743.	.6462-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
669	.2424-01	.4040-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
669	27.268	.92800	2113.0	.2246-01	.2727-01	.2727-01	.9000	.5446-03	.6611-03	.3887	2.886	544.8
669	27.268	1.8190	2191.0	.2872-01	.3487-01	.3487-01	.9000	.6961-03	.8452-03	.4968	3.951	545.0



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1356

OH84B 60-0 LOWER BODYFLAP

(R4UK47)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
685	2.023	7.980	39.98	-.6930-02	434.5	1292.	94.03	.4523-01	2.016	3794.	.1298-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
685	.3497-01	.2858-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
685	27.268	.92800	2113.0	.1540	.1880	.1880	.9000	.5385-02	.6574-02	3.844	28.07	577.7
685	27.268	1.8190	2191.0	.1278	.1561	.1561	.9000	.4471-02	.5458-02	3.196	25.01	577.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1357

OH84B 60-0 LOWER BODYFLAP

(R4UK47)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BOFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	O PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
703	2.990	7.990	40.01	-.6955-02	668.4	1324.	96.14	.6903-01	3.085	3841.	.1938-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
703	.4344-01	.2345-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
703	27.268	.92800	2113.0	.2430	.2993	.2993	.9000	.1056-01	.1300-01	7.437	53.21	619.3
703	27.265	1.8190	2191.0	.2164	.2666	.2666	.9000	.9402-02	.1159-01	6.615	50.68	620.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1358

OH84B 60-0 LOWER BODYFLAP

(R4UK48)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
675	.5021	7.900	39.94	-.6904-02	100.2	1253.	92.91	.1114-01	.4866	3733.	.3235-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
675	.1709-01	.5706-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
675	27.268	.92800	2113.0	.3215-01	.3907-01	.3907-01	.9000	.5495-03	.6676-03	.3890	2.887	544.8
675	27.268	1.8190	2191.0	.3759-01	.4569-01	.4569-01	.9000	.6425-03	.7809-03	.4541	3.609	545.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1359

OH84B 60-0 LOWER BODYFLAP

(R4UK48)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
673	1.003	7.940	39.97	-.6929-02	205.6	1264.	92.86	.2211-01	.9759	3751.	.6427-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
673	.2424-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
673	27.268	.92800	2113.0	.1198	.1461	.1461	.9000	.2903-02	.3540-02	2.037	14.99	562.0
673	27.268	1.8190	2191.0	.1175	.1435	.1435	.9000	.2849-02	.3477-02	1.994	15.71	563.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1360

OH84B 60-0 LOWER BODYFLAP

(R4UK48)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
691	1.993	7.980	39.99	-.6942-02	434.6	1305.	94.98	.4524-01	2.017	3813.	.1286-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
691	.3504-01	.2875-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
691	27.268	.92800	2113.0	.3255	.4018	.4018	.9000	.1140-01	.1408-01	7.834	56.09	617.7
691	27.268	1.8190	2191.0	.2860	.3532	.3532	.9000	.1002-01	.1238-01	6.877	52.73	618.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1361

OH84B 60-0 LOWER BODYFLAP

(R4UK48)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
697	2.999	7.990	40.00	-.6947-02	668.9	1322.	96.00	.6908-01	3.087	3838.	.1942-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
697	.4345-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
697	27.268	.92800	2113.0	.3401	.4224	.4224	.9000	.1478-01	.1835-01	10.03	70.89	643.3
697	27.268	1.8190	2191.0	.2942	.3652	.3652	.9000	.1278-01	.1587-01	8.681	65.80	642.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1362

OH84B 60-0 LOWER BODYFLAP

(R4UK49)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
677	.5060	7.900	39.96	-.6920-02	101.1	1254.	92.99	.1124-01	.4909	3735.	.3262-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
677	.1717-01	.5684-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
677	27.268	1.819	2113.0	.6753-01	.8217-01	.8217-01	.9000	.1159-02	.1411-02	.8156	6.039	550.2
677	27.268	1.819	2191.0	.8064-01	.9817-01	.9817-01	.9000	.1384-02	.1685-02	.9720	7.704	551.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1363

OH84B 60-0 LOWER BODYFLAP

(R4UK49)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
671	1.007	7.940	39.96	-1.1038-01	204.7	1257.	92.34	.2202-01	.9716	3740.	.6435-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
671	.2416-01	.4047-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
671	27.268	.92800	2113.0	.2578	.3166	.3166	.9000	.6229-02	.7649-02	4.214	30.74	580.1
671	27.268	1.8190	2191.0	.2583	.3178	.3178	.9000	.6241-02	.7679-02	4.189	32.65	585.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1364

OH84B 60-0 LOWER BODYFLAP

(R4UK49)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
693	2.000	7.980	40.00	-1.1042-01	434.5	1302.	94.76	.4523-01	2.016	3808.	.1288-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
693	.3502-01	.2871-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
693	27.268	.92800	2113.0	.4483	.5582	.5582	.9000	.1570-01	.1955-01	10.38	73.48	640.6
693	27.268	1.8190	2191.0	.4004	.4989	.4989	.9000	.1402-01	.1747-01	9.245	70.07	642.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1365

OH84B 60-0 LOWER BODYFLAP

(R4UK49)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BOFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
695	3.030	7.990	40.02	-.6963-02	669.0	1313.	95.34	.6909-01	3.087	3825.	.1956-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
695	.4340-01	.2332-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
695	27.268	.92800	2113.0	.4441	.5582	.5582	.9000	.1927-01	.2422-01	12.38	86.45	670.2
695	27.268	1.8190	2191.0	.3725	.4674	.4674	.9000	.1617-01	.2029-01	10.45	78.32	666.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1366

OH84B 60-0 LOWER BODYFLAP

(R4UK50)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = .0000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
767	.5029	7.900	39.98	-.3466-02	100.1	1251.	92.77	.1113-01	.4863	3730.	.3238-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
767	.1708-01	.5703-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
767	27.268	.92800	2113.0	.1972-01	.2389-01	.2389-01	.9000	.3368-03	.4081-03	.2410	1.798	535.0
767	27.268	1.8190	2191.0	.3518-01	.4268-01	.4268-01	.9000	.6008-03	.7289-03	.4275	3.409	539.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1367

OH84B 60-0 LOWER BODYFLAP

(R4UK50)

LWR BODYFLAP

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
757	1.043	7.940	39.99	-.4654-06	214.1	1265.	92.93	.2302-01	1.016	3752.	.6687-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
757	.2474-01	.3973-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
757	27.268	.92800	2113.0	.2301-01	.2791-01	.2791-01	.9000	.5692-03	.6904-03	.4101	3.045	544.2
757	27.268	1.8190	2191.0	.4228-01	.5133-01	.5133-01	.9000	.1046-02	.1270-02	.7499	5.956	547.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1368

OH84B 60-0 LOWER BODYFLAP

(R4UK50)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
755	1.966	7.980	40.06	-4.684-06	429.7	1307.	95.13	.4474-01	1.994	3815.	.1269-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
755	.3485-01	.2894-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
755	27.268	.92800	2113.0	.8099-01	.9833-01	.9833-01	.9000	.2823-02	.3427-02	2.091	15.36	565.8
755	27.268	1.8190	2191.0	.7291-01	.8854-01	.8854-01	.9000	.2541-02	.3086-02	1.881	14.80	566.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1369

OH84B 60-0 LOWER BODYFLAP

(R4UK50)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
745	3.041	7.990	40.06	-.3495-02	670.5	1312.	95.27	.6924-01	3.094	3823.	.1962-02	.7666-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
745	.4344-01	.2328-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
745	27.268	.92800	2113.0	.1536	.1878	.1878	.9000	.6671-02	.8158-02	4.801	34.81	592.0
745	27.268	1.8190	2191.0	.1312	.1604	.1604	.9000	.5699-02	.6968-02	4.102	31.87	591.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1370

OH84B 60-0 LOWER BODYFLAP

(R4UK51)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
765	X10 6 .5049	7.900	39.98	-.3466-02	100.4	1250.	92.69	.1116-01	.4875	3729.	.3249-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
765	.1710-01	.5692-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
765	27.268	.92800	2113.0	.3024-01	.3677-01	.3677-01	.9000	.5171-03	.6287-03	.3641	2.702	545.6
765	27.268	1.8190	2191.0	.3583-01	.4359-01	.4359-01	.9000	.6126-03	.7454-03	.4298	3.413	548.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1371

OH84B 60-0 LOWER BODYFLAP

(R4UK51)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
759	1.001	7.940	39.99	-4.655-06	206.7	1270.	93.30	.2224-01	.9813	3760.	.6433-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
759	.2433-01	.4053-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
759	27.268	.92800	2113.0	.1102	.1344	.1344	.9000	.2681-02	.3269-02	1.894	13.93	563.1
759	27.268	1.8190	2191.0	.1206	.1472	.1472	.9000	.2933-02	.3581-02	2.057	16.17	568.2



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 LOWER BODYFLAP

PAGE 1372

(R4UK51)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
753	2.020	7.980	40.04	-4678-06	434.4	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
753	.3498-01	.2859-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
753	27.268	.92800	2113.0	.1338	.1633	.1633	.9000	.4678-02	.5712-02	3.340	24.38	578.7
753	27.268	1.8190	2191.0	.1130	.1380	.1380	.9000	.3953-02	.4827-02	2.823	22.08	578.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1373

OH84B 60-0 LOWER BODYFLAP

(R4UK51)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 15.00    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
747	2.979	7.990	40.06	-4686-06	660.0	1316.	95.56	.6816-01	3.046	3829.	.1925-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
747	.4312-01	.2351-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
747	27.268	.92800	2113.0	.1675	.2049	.2049	.9000	.7225-02	.8937-02	5.211	37.73	594.4
747	27.268	1.8190	2191.0	.1432	.1753	.1753	.9000	.6176-02	.7559-02	4.443	34.44	596.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1374

OH84B 60-0 LOWER BODYFLAP

(R4UK52)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BOFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
763	.4981	7.900	39.97	-.3462-02	99.31	1252.	92.84	.1104-01	.4822	3732.	.3209-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
763	.1701-01	.5729-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
763	27.268	.92800	2113.0	.6641-01	.8094-01	.8094-01	.9000	.1130-02	.1377-02	.7874	5.816	554.6
763	27.268	1.8190	2191.0	.7691-01	.9382-01	.9382-01	.9000	.1308-02	.1596-02	.9088	7.183	557.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1375

OH84B 60-0 LOWER BODYFLAP

(R4UK52)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BOFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
761	1.006	7.940	39.99	-.4652-06	206.4	1265.	92.93	.2220-01	.9799	3752.	.6449-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
761	.2429-01	.4046-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
761	27.268	.92800	2113.0	.2485	.3052	.3052	.9000	.6035-02	.7413-02	4.107	29.89	584.2
761	27.268	1.8190	2191.0	.2515	.3096	.3096	.9000	.6110-02	.7521-02	4.121	32.04	590.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1378

OH84B 60-0 LOWER BODYFLAP

(R4UK501)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
751	1.987	7.980	40.06	-4685-06	435.2	1309.	95.27	.4531-01	2.020	3818.	.1284-02	.7667-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
751	.3508-01	.2878-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
751	27.268	.92800	2113.0	.4607	.5739	.5739	.9000	.1616-01	.2013-01	10.72	75.74	645.3
751	27.268	1.8190	2191.0	.4080	.5086	.5086	.9000	.1431-01	.1784-01	9.465	71.57	647.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER BODYFLAP

(R4UK52)

LWR BODYFLAP

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
 BOFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
749	2.958	7.990	40.06	-4686-06	659.9	1322.	96.00	.6815-01	3.045	3838.	.1916-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
749	.4315-01	.2358-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
749	27.268	.92800	2113.0	.4336	.5442	.5442	.9000	.1871-01	.2348-01	12.17	84.92	671.2
749	27.268	1.8190	2191.0	.3783	.4749	.4749	.9000	.1632-01	.2049-01	10.60	79.23	672.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1378

OH84B 60-0 BODYFLAP EDGE

(R4UL29)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
BDFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
717	.5091	7.900	39.99	.3469-02	100.3	1242.	92.10	.1115-01	.4869	3717.	.3266-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
717	.1707-01	.5674-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
717	26.994	5.0640	2192.0	.1976-01	.2390-01	.2390-01	.9000	.3373-03	.4079-03	.2420	1.757	524.2
717	27.265	5.0920	2193.0	.1714-01	.2073-01	.2073-01	.9000	.2926-03	.3538-03	.2100	1.550	523.8
717	27.639	5.1060	2194.0	.1495-01	.1808-01	.1808-01	.9000	.2553-03	.3086-03	.1833	1.331	523.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1379

OH84B 60-0 BODYFLAP EDGE

(R4UL29)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
BDFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
715	1.013	7.940	39.99	.3469-02	207.7	1264.	92.86	.2234-01	.9860	3751.	.6495-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
715	.2436-01	.4031-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
715	26.994	5.0640	2192.0	.2156-01	.2602-01	.2602-01	.9000	.5253-03	.6339-03	.3874	2.810	526.1
715	27.265	5.0920	2193.0	.1816-01	.2191-01	.2191-01	.9000	.4424-03	.5338-03	.3267	2.409	525.3
715	27.639	5.1060	2194.0	.1581-01	.1907-01	.1907-01	.9000	.3853-03	.4647-03	.2848	2.067	524.6



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1380

OH84B 60-0 BODYFLAP EDGE

(R4UL29)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
709	2.011	7.980	40.04	.1046-01	432.9	1294.	94.18	.4507-01	2.009	3796.	.1292-02	.7579-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
709	.3492-01	.2865-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
709	26.994	5.0640	2192.0	.3346-01	.4032-01	.4032-01	.9000	.1168-02	.1408-02	.8875	6.411	534.0
709	27.265	5.0920	2193.0	.2556-01	.3078-01	.3078-01	.9000	.8924-03	.1075-02	.6798	4.996	531.9
709	27.639	5.1060	2194.0	.2087-01	.2513-01	.2513-01	.9000	.7288-03	.8775-03	.5566	4.028	530.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1381

OH84B 60-0 BODYFLAP EDGE

(R4UL29)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
BOFLAP = -12.50 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
707	3.005	7.990	40.05	.6989-02	671.7	1324.	96.14	.6937-01	3.100	3841.	.1947-02	.7736-07
RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175										
707	.4355-01	.2339-01										

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
707	26.994	5.0640	2:92.0	.4051-01	.4879-01	.4879-01	.9000	.1764-02	.2125-02	1.377	9.898	543.3
707	27.265	5.0920	2193.0	.3109-01	.3743-01	.3743-01	.9000	.1354-02	.1630-02	1.058	7.736	542.1
707	27.639	5.1060	2194.0	.2544-01	.3061-01	.3061-01	.9000	.1108-02	.1333-02	.8690	6.260	539.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1382

OH84B 60-0 BODYFLAP EDGE

(R4UL301)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 <sup>6</sup>	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
719	.5000	7.900	39.98	.3465-02	100.3	1257.	93.21	.1115-01	.4869	3739.	.3227-03	.7501-07

RUN NUMBER	HREF BTU/ R FT <sup>2</sup> SEC	STN NO REF (R) =.0175
719	.1711-01	.5715-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT <sup>2</sup> SEC	H(TAW) BTU/R FT <sup>2</sup> SEC	QDOT BTU/ FT <sup>2</sup> SEC	DTWOT DEG. R /SEC	TW DEG. R
719	26.994	5.0640	2192.0	.2260-01	.2727-01	.2727-01	.9000	.3866-03	.4665-03	.2834	2.058	523.5
719	27.265	5.0920	2193.0	.2167-01	.2616-01	.2616-01	.9000	.3707-03	.4474-03	.2718	2.006	523.6
719	27.639	5.1060	2194.0	.2375-01	.2867-01	.2867-01	.9000	.4063-03	.4904-03	.2979	2.163	523.5

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1383

OH84B 60-O BODYFLAP EDGE

(R4UL30)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
713	.9943	7.940	39.99	.6941-02	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
713	.2417-01	.4069-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
713	26.994	5.0640	2192.0	.2625-01	.3167-01	.3167-01	.9000	.6344-03	.7654-03	.4690	3.401	526.3
713	27.265	5.0920	2193.0	.2227-01	.2686-01	.2686-01	.9000	.5383-03	.6493-03	.3985	2.939	525.3
713	27.639	5.1060	2194.0	.2377-01	.2868-01	.2868-01	.9000	.5746-03	.6933-03	.4250	3.083	526.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1384

OH84B 60-0 BODYFLAP EDGE

(R4UL30)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -15.00  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
711	1.999	7.980	40.06	.1048-01	436.8	1307.	95.13	.4548-01	2.027	3815.	.1290-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
711	.3514-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
711	26.994	5.0640	2192.0	.3463-01	.4168-01	.4168-01	.9000	.1217-02	.1465-02	.9396	6.785	534.5
711	27.265	5.0920	2193.0	.3049-01	.3668-01	.3658-01	.9000	.1071-02	.1289-02	.8287	6.087	533.1
711	27.639	5.1060	2194.0	.3922-01	.4722-01	.4722-01	.9000	.1378-02	.1659-02	1.062	7.668	535.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1385

OH84B 60-0 BODYFLAP EDGE

(R4UL30)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00  
 BODYFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
705	3.029	7.990	40.07	.3498-02	670.2	1315.	95.49	.6921-01	3.093	3827.	.1956-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
705	.4345-01	.2332-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
705	26.994	5.0640	2192.0	.4192-01	.5055-01	.5055-01	.9000	.1821-02	.2196-02	1.403	10.08	544.4
705	27.265	5.0920	2193.0	.3658-01	.4409-01	.4409-01	.9000	.1589-02	.1916-02	1.227	8.970	542.6
705	27.639	5.1060	2194.0	.5263-01	.6350-01	.6350-01	.9000	.2287-02	.2759-02	1.757	12.61	546.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1386

OH84B 60-0 BODYFLAP EDGE

(R4UL31)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
725	.4997	7.900	39.98	-.1733-01	100.5	1259.	93.36	.1117-01	.4878	3742.	.3228-03	.7513-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
725	.1713-01	.5716-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
725	26.994	5.0640	2192.0	.2214-01	.2678-01	.2678-01	.9000	.3791-03	.4586-03	.2755	1.992	532.0
725	27.265	5.0920	2193.0	.2054-01	.2484-01	.2484-01	.9000	.3517-03	.4254-03	.2556	1.879	531.9
725	27.639	5.1060	2194.0	.1758-01	.2125-01	.2125-01	.9000	.3010-03	.3640-03	.2189	1.583	531.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1387

OH84B 60-0 BODYFLAP EDGE

(R4UL31)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BOFLAP = -12.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
739	.9893	7.940	39.98	-.2427-01	204.0	1269.	93.22	.2194-01	.9684	3758.	.6353-03	.7502-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
739	.2416-01	.4077-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
739	26.994	5.0640	2192.0	.2606-01	.3151-01	.3151-01	.9000	.6297-03	.7615-03	.4617	3.332	535.5
739	27.265	5.0920	2193.0	.2173-01	.2627-01	.2627-01	.9000	.5251-03	.6348-03	.3853	2.827	534.9
739	27.639	5.1060	2194.0	.1806-01	.2183-01	.2183-01	.9000	.4365-03	.5276-03	.3207	2.316	533.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1388

OH84B 60-0 BODYFLAP EDGE

(R4UL31)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
737	2.003	7.980	40.04	-.2093-01	434.1	1300.	94.62	.4520-01	2.015	3805.	.1289-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC =.0175	STN NO REF(R) =.0175
737	.3500-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
737	26.994	5.0640	2192.0	.3831-01	.4627-01	.4627-01	.9000	.1341-02	.1619-02	1.014	7.287	543.6
737	27.265	5.0920	2193.0	.3261-01	.3937-01	.3937-01	.9000	.1141-02	.1378-02	.8637	6.312	542.8
737	27.639	5.1060	2194.0	.2859-01	.3449-01	.3449-01	.9000	.1000-02	.1207-02	.7590	5.463	541.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1389

OH84B 60-0 BODYFLAP EDGE

(R4UL31)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -12.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
727	3.035	7.990	40.06	-2097-01	670.9	1314.	95.41	.6928-01	3.096	3826.	.1960-02	.7678-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
727	.4347-01	.2330-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
727	26.994	5.0640	2192.0	.4805-01	.5787-01	.5787-01	.9000	.2088-02	.2516-02	1.616	11.64	539.9
727	27.265	5.0920	2193.0	.4047-01	.4874-01	.4874-01	.9000	.1759-02	.2118-02	1.363	9.981	538.9
727	27.639	5.1060	2194.0	.3188-01	.3837-01	.3837-01	.9000	.1386-02	.1668-02	1.077	7.767	536.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1390

OH84B 60-0 BODYFLAP EDGE

(R4UL32)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
723	.4957	7.900	39.97	-.1731-01	100.1	1263.	93.66	.1113-01	.4862	3748.	.3207-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
723	.1711-01	.5736-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
723	26.994	5.0640	2192.0	.2482-01	.2994-01	.2994-01	.9000	.4245-03	.5122-03	.3131	2.272	525.1
723	27.265	5.0920	2193.0	.2171-01	.2619-01	.2619-01	.9000	.3714-03	.4480-03	.2742	2.023	524.3
723	27.639	5.1060	2194.0	.2008-01	.2422-01	.2422-01	.9000	.3435-03	.4144-03	.2537	1.842	524.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1391

OH84B 60-0 BODYFLAP EDGE

(R4UL32)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BOFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
741	.9943	7.940	39.99	-.2082-01	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
741	.2417-01	.4069-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
741	26.994	5.0640	2192.0	.2555-01	.3091-01	.3091-01	.9000	.6175-03	.7472-03	.4503	3.249	536.4
741	27.265	5.0920	2193.0	.2034-01	.2461-01	.2461-01	.9000	.4916-03	.5947-03	.3590	2.633	535.5
741	27.639	5.1060	2194.0	.1851-01	.2239-01	.2239-01	.9000	.4473-03	.5411-03	.3266	2.358	535.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1392

OH84B 60-0 BODYFLAP EDGE

(R4UL32)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
735	1.997	7.980	40.06	-2.095-01	434.8	1304.	94.91	.4527-01	2.018	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
735	.3504-01	.2873-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
735	26.994	5.0640	2192.0	.4069-01	.4903-01	.4903-01	.9000	.1426-02	.1718-02	1.092	7.876	537.3
735	27.265	5.0920	2193.0	.3360-01	.4047-01	.4047-01	.9000	.1178-02	.1418-02	.9042	6.632	535.8
735	27.639	5.1060	2194.0	.3438-01	.4141-01	.4141-01	.9000	.1205-02	.1451-02	.9253	6.678	535.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1393

OH84B 60-0 BODYFLAP EDGE

(R4UL32)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50  
 BDFLAP = -5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
729	3.003	7.990	40.07	-.2097-01	668.3	1320.	95.85	.6901-01	3.084	3835.	.1943-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
729	.4342-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
729	26.994	5.0640	2192.0	.4943-01	.5954-01	.5954-01	.9000	.2146-02	.2585-02	1.667	11.99	542.8
729	27.265	5.0920	2193.0	.3947-01	.4751-01	.4751-01	.9000	.1714-02	.2063-02	1.336	9.778	540.1
729	27.639	5.1060	2194.0	.4182-01	.5034-01	.5034-01	.9000	.1816-02	.2186-02	1.415	10.19	540.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1394

OH84B 60-0 BODYFLAP EDGE

(R4UL33)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
721	.5028	7.900	39.98	-.1386-01	100.9	1257.	93.21	.1121-01	.4897	3739.	.3245-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
721	.1715-01	.5699-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
721	26.994	5.0640	2192.0	.2652-01	.3204-01	.3204-01	.9000	.4548-03	.5495-03	.3318	2.404	527.3
721	27.265	5.0920	2193.0	.2289-01	.2765-01	.2765-01	.9000	.3927-03	.4744-03	.2867	2.113	526.6
721	27.639	5.1060	2194.0	.2390-01	.2887-01	.2887-01	.9000	.4100-03	.4953-03	.2993	2.170	526.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1395

OH84B 60-0 BODYFLAP EDGE

(R4UL33)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
743	1.018	7.940	39.99	-.2081-01	209.4	1267.	93.08	.2253-01	.9941	3755.	.6532-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
743	.2447-01	.4021-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
743	26.994	5.0640	2192.0	.2703-01	.3269-01	.3269-01	.9000	.6615-03	.8002-03	.4834	3.489	535.9
743	27.265	5.0920	2193.0	.2277-01	.2754-01	.2754-01	.9000	.5574-03	.6741-03	.4079	2.993	534.9
743	27.639	5.1060	2194.0	.2481-01	.3001-01	.3001-01	.9000	.6073-03	.7346-03	.4441	3.206	535.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1396

OH84B 60-0 BODYFLAP EDGE

(RWUL33)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
733	1.990	7.980	40.04	-.2091-01	433.8	1305.	94.98	.4516-01	2.013	3813.	.1283-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
733	.3501-01	.2877-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
733	26.994	5.0640	2192.0	.4215-01	.5080-01	.5080-01	.9000	.1476-02	.1779-02	1.130	8.141	538.9
733	27.265	5.0920	2193.0	.3738-01	.4505-01	.4505-01	.9000	.1309-02	.1577-02	1.003	7.346	538.4
733	27.639	5.1060	2194.0	.4784-01	.5767-01	.5767-01	.9000	.1675-02	.2019-02	1.281	9.229	539.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1397

OH84B 60-0 BODYFLAP EDGE

(R4UL33)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -12.50  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
731	3.017	7.990	40.06	-.2096-01	671.5	1320.	95.85	.6935-01	3.099	3835.	.1953-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
731	.4352-01	.2335-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
731	26.994	5.0640	2192.0	.5287-01	.6366-01	.6366-01	.9000	.2301-02	.2770-02	1.791	12.89	541.2
731	27.265	5.0920	2193.0	.4639-01	.5582-01	.5582-01	.9000	.2019-02	.2429-02	1.578	11.56	538.2
731	27.639	5.1060	2194.0	.5730-01	.6899-01	.6899-01	.9000	.2494-02	.3003-02	1.942	13.98	540.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1398

OH84B 60-0 BODYFLAP EDGE

(R4UL34)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
633	.5017	7.900	39.93	-.3449-02	100.0	1252.	92.84	.1112-01	.4857	3732.	.3232-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
633	.1707-01	.5709-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
633	26.994	5.0640	2192.0	.3510-01	.4252-01	.4252-01	.9000	.5992-03	.7258-03	.4301	3.107	533.9
633	27.265	5.0920	2193.0	.3452-01	.4182-01	.4182-01	.9000	.5894-03	.7139-03	.4228	3.104	534.3
633	27.639	5.1060	2194.0	.3031-01	.3670-01	.3670-01	.9000	.5174-03	.6266-03	.3719	2.688	533.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1399

OH84B 60-0 BODYFLAP EDGE

(R4UL34)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
659	1.001	7.940	39.97	-.4645-06	206.7	1270.	93.30	.2223-01	.9811	3760.	.6431-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
659	.2432-01	.4053-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
659	26.994	5.0640	2192.0	.4531-01	.5475-01	.5475-01	.9000	.1102-02	.1332-02	.8119	5.868	533.0
659	27.265	5.0920	2193.0	.4191-01	.5063-01	.5063-01	.9000	.1019-02	.1232-02	.7514	5.521	532.6
659	27.639	5.1060	2194.0	.3901-01	.4710-01	.4710-01	.9000	.9488-03	.1146-02	.7008	5.069	531.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1400

OH84B 60-0 BODYFLAP EDGE

(R4UL34)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
647	1.985	7.980	40.00	.3471-02	436.3	1312.	95.49	.4542-01	2.025	3823.	.1284-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
647	.3514-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
647	26.994	5.0640	2192.0	.6388-01	.7713-01	.7713-01	.9000	.2245-02	.2710-02	1.713	12.28	548.5
647	27.265	5.0920	2193.0	.5273-01	.6362-01	.6362-01	.9000	.1853-02	.2236-02	1.420	10.36	545.6
647	27.639	5.1060	2194.0	.4741-01	.5715-01	.5715-01	.9000	.1666-02	.2008-02	1.282	9.222	542.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1401

OH84B 60-0 BODYFLAP EDGE

(R4UL34)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BOFLAP = -12.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
649	3.013	7.990	40.03	.6967-02	670.5	1320.	95.85	.6924-01	3.094	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
649	.4349-01	.2337-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
649	26.994	5.0640	2192.0	.7155-01	.8646-01	.8646-01	.9000	.3112-02	.3760-02	2.381	17.03	554.3
649	27.265	5.0920	2193.0	.5924-01	.7153-01	.7153-01	.9000	.2576-02	.3111-02	1.979	14.40	551.5
649	27.639	5.1060	2194.0	.4648-01	.5603-01	.5603-01	.9000	.2022-02	.2437-02	1.566	11.25	544.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1402

OH84B 60-0 BODYFLAP EDGE

(R4UL35)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
635	.4992	7.900	39.96	-.3458-02	99.17	1249.	92.62	.1102-01	.4815	3727.	.3212-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
635	.1699-01	.5725-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
635	26.994	5.0640	2192.0	.3640-01	.4402-01	.4402-01	.9000	.6185-03	.7479-03	.4461	3.233	527.4
635	27.265	5.0920	2193.0	.3448-01	.4171-01	.4171-01	.9000	.5858-03	.7087-03	.4216	3.103	528.9
635	27.639	5.1060	2194.0	.2503-01	.3028-01	.3028-01	.9000	.4253-03	.5145-03	.3062	2.218	528.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1403

OH84B 60-0 BODYFLAP EDGE

(R4UL35)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
657	.9860	7.940	39.99	-4.654-06	202.4	1265.	92.93	.2177-01	.9606	3752.	.6322-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
657	.2405-01	.4086-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
657	26.994	5.0640	2192.0	.4598-01	.5566-01	.5566-01	.9000	.1106-02	.1339-02	.8043	5.800	537.4
657	27.265	5.0920	2193.0	.3985-01	.4823-01	.4823-01	.9000	.9585-03	.1160-02	.6979	5.117	536.6
657	27.639	5.1060	2194.0	.3081-01	.3726-01	.3726-01	.9000	.7411-03	.8963-03	.5413	3.909	534.3



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1404

OH84B 60-0 BODYFLAP EDGE

(R4UL35)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = -5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
645	1.997	7.980	40.01	-.4664-06	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
645	.3502-01	.2873-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
645	26.994	5.0640	2192.0	.6580-01	.7964-01	.7964-01	.9000	.2304-02	.2789-02	1.727	12.35	553.2
645	27.265	5.0920	2193.0	.4969-01	.6007-01	.6007-01	.9000	.1740-02	.2104-02	1.311	9.551	549.2
645	27.639	5.1060	2194.0	.3988-01	.4817-01	.4817-01	.9000	.1397-02	.1687-02	1.057	7.588	546.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1405

OH84B 60-0 BODYFLAP EDGE

(R4UL35)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
655	2.999	7.990	40.01	.6952-02	675.0	1330.	96.58	.6970-01	3.115	3849.	.1948-02	.7772-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
655	.4369-01	.2340-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
655	26.994	5.0640	2192.0	.8083-01	.9760-01	.9760-01	.9000	.3531-02	.4264-02	2.733	19.52	555.8
655	27.265	5.0920	2193.0	.6094-01	.7349-01	.7349-01	.9000	.2662-02	.3210-02	2.073	15.09	551.1
655	27.639	5.1060	2194.0	.5417-01	.6523-01	.6523-01	.9000	.2367-02	.2850-02	1.857	13.34	545.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1406

OH84B 60-0 BODYFLAP EDGE

(R4UL36)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BOFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
637	.5033	7.900	39.93	-.6897-02	99.99	1249.	92.62	.1111-01	.4855	3727.	.3238-03	.7453-07

RUN NUMBER	HREF BTU/ R ET2SEC	STN NO REF (R) =.0175
637	.1706-01	.5702-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
637	26.994	5.0640	2192.0	.3557-01	.4798-01	.4798-01	.9000	.6752-03	.8185-03	.4813	3.474	535.8
637	27.265	5.0920	2193.0	.3418-01	.4143-01	.4143-01	.9000	.5832-03	.7068-03	.4162	3.054	535.0
637	27.639	5.1060	2194.0	.2668-01	.3233-01	.3233-01	.9000	.4552-03	.5515-03	.3254	2.351	533.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1407

OH84B 60-0 BODYFLAP EDGE

(R4UL36)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
663	1.016	7.940	39.97	-4643-06	207.3	1260.	92.56	.2230-01	.9840	3745.	.6501-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
663	.2433-01	.4028-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
663	26.994	5.0640	2192.0	.4871-01	.5895-01	.5895-01	.9000	.1185-02	.1434-02	.8591	6.204	534.6
663	27.265	5.0920	2193.0	.4008-01	.4847-01	.4847-01	.9000	.9749-03	.1179-02	.7089	5.209	532.4
663	27.639	5.1060	2194.0	.3230-01	.3904-01	.3904-01	.9000	.7857-03	.9497-03	.5731	4.147	530.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1408

OH84B 60-0 BODYFLAP EDGE

(R4UL36)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
643	2.006	7.980	39.98	-.1040-01	434.5	1299.	94.54	.4523-01	2.016	3804.	.1291-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
643	.3501-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
643	26.994	5.0640	2192.0	.7070-01	.8553-01	.8553-01	.9000	.2475-02	.2994-02	1.854	13.28	549.7
643	27.265	5.0920	2193.0	.5402-01	.6526-01	.6526-01	.9000	.1891-02	.2285-02	1.426	10.41	544.8
643	27.639	5.1060	2194.0	.5419-01	.6544-01	.6544-01	.9000	.1897-02	.2291-02	1.434	10.31	543.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1409

OH84B 60-0 BODYFLAP EDGE

(R4UL36)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
653	2.998	7.990	40.02	.6962-02	672.4	1327.	96.36	.6944-01	3.103	3845.	.1945-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
653	.4359-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
653	26.994	5.0640	2192.0	.8565-01	.1035	.1035	.9000	.3734-02	.4513-02	2.868	20.46	558.4
653	27.265	5.0920	2193.0	.6370-01	.7687-01	.7687-01	.9000	.2777-02	.3351-02	2.151	15.64	552.2
653	27.639	5.1060	2194.0	.6484-01	.7819-01	.7819-01	.9000	.2827-02	.3408-02	2.197	15.75	549.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1410

OH84B 60-0 BODYFLAP EDGE

(R4UL37)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = 5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
639	.5035	7.900	39.95	-.1383-01	99.79	1247.	92.47	.1109-01	.4845	3724.	.3237-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
639	.1704-01	.5702-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
639	26.994	5.0640	2192.0	.4029-01	.4878-01	.4878-01	.9000	.6864-03	.8312-03	.4913	3.554	531.0
639	27.265	5.0920	2193.0	.3408-01	.4125-01	.4125-01	.9000	.5807-03	.7028-03	.4166	3.066	529.3
639	27.639	5.1060	2194.0	.3223-01	.3901-01	.3901-01	.9000	.5493-03	.6647-03	.3943	2.856	528.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1411

OH84B 60-0 BODYFLAP EDGE

(R4UL37)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
BDFLAP = 5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
661	1.021	7.940	39.97	-.4644-06	206.8	1254.	92.12	.2224-01	.9816	3736.	.6517-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
661	.2428-01	.4021-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
661	26.994	5.0640	2192.0	.4754-01	.5759-01	.5759-01	.9000	.1154-02	.1398-02	.8295	5.989	535.0
661	27.265	5.0920	2193.0	.3829-01	.4634-01	.4634-01	.9000	.9296-03	.1125-02	.6710	4.932	531.9
661	27.639	5.1060	2194.0	.3691-01	.4467-01	.4467-01	.9000	.8961-03	.1084-02	.6471	4.680	531.5



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1412

OH84B 60-0 BODYFLAP EDGE

(R4UL37)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = -5.000  
 BDFLAP = 5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
641	2.028	7.980	39.99	-.6938-02	435.7	1292.	94.03	.4536-01	2.022	3794.	.1302-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
641	.3502-01	.2854-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
641	26.994	5.0640	2192.0	.7609-01	.9195-01	.9195-01	.9000	.2665-02	.3220-02	1.997	14.36	542.5
641	27.265	5.0920	2193.0	.6164-01	.7436-01	.7436-01	.9000	.2159-02	.2604-02	1.630	11.95	536.6
641	27.639	5.1060	2194.0	.6985-01	.8428-01	.8428-01	.9000	.2446-02	.2951-02	1.846	13.31	537.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1413

OH84B 60-0 BODYFLAP EDGE

(R4UL37)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
651	2.990	7.990	40.05	.3490-02	671.4	1328.	96.43	.6934-01	3.098	3846.	.1941-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC =.0175	STN NO REF(R) =.0175
651	.4356-01	.2344-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
651	26.994	5.0640	2192.0	.9128-01	.1102	.1102	.9000	.3976-02	.4801-02	3.073	21.96	554.9
651	27.265	5.0920	2193.0	.7176-01	.8645-01	.8645-01	.9000	.3126-02	.3766-02	2.443	17.82	546.3
651	27.639	5.1060	2194.0	.7994-01	.9631-01	.9631-01	.9000	.3482-02	.4195-02	2.721	19.53	546.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1414

OH84B 60-0 BODYFLAP EDGE

(R4UL38)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
631	.5096	7.900	39.97	.1384-01	101.0	1247.	92.47	.1122-01	.4903	3724.	.3276-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
631	.1714-01	.5668-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
631	26.994	5.0640	2192.0	.3445-01	.4170-01	.4170-01	.9000	.5905-03	.7147-03	.4237	3.068	529.1
631	27.265	5.0920	2193.0	.2816-01	.3407-01	.3407-01	.9000	.4826-03	.5840-03	.3466	2.552	528.5
631	27.639	5.1060	2194.0	.1735-01	.2098-01	.2098-01	.9000	.2974-03	.3596-03	.2142	1.553	526.5

DATE 23 FEB 80

QMB48 MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1415

QMB48 60-0 BODYFLAP EDGE

(RMUL38)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = -12.50 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
605	1.013	7.940	39.97	.1385-01	206.2	1258.	92.42	.2218-01	.9787	3742.	.6477-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
605	.2425-01	.4035-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
605	26.994	5.0640	2192.0	.4276-01	.5170-01	.5170-01 .9000	.1037-02	.1254-02	.7542	5.457	530.4
605	27.265	5.0920	2193.0	.3838-01	.4640-01	.4640-01 .9000	.9308-03	.1125-02	.6770	4.980	530.3
605	27.639	5.1060	2194.0	.2543-01	.3071-01	.3071-01 .9000	.6168-03	.7449-03	.4513	3.273	526.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1416

OH84B 60-0 BODYFLAP EDGE

(R4UL38)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
603	2.009	7.980	39.99	.1734-01	434.1	1297.	94.40	.4519-01	2.014	3801.	.1292-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
603	.3498-01	.2866-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
603	26.994	5.0640	2192.0	.5994-01	.7235-01	.7235-01	.9000	.2097-02	.2531-02	1.585	11.41	540.7
603	27.265	5.0920	2193.0	.4960-01	.5985-01	.5985-01	.9000	.1735-02	.2094-02	1.314	9.625	539.1
603	27.639	5.1060	2194.0	.3459-01	.4166-01	.4166-01	.9000	.1210-02	.1457-02	.9239	6.677	533.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1417

OH84B 60-0 BODYFLAP EDGE

(R4UL38)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -12.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
581	2.994	7.990	40.05	.1047-01	671.7	1327.	96.36	.6937-01	3.100	3845.	.1943-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
581	.4357-01	.2342-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
581	26.994	5.0640	2192.0	.6558-01	.7919-01	.7919-01	.9000	.2857-02	.3450-02	2.205	15.76	554.8
581	27.265	5.0920	2193.0	.5398-01	.6515-01	.6515-01	.9000	.2352-02	.2838-02	1.820	13.24	552.6
581	27.639	5.1060	2194.0	.3879-01	.4670-01	.4670-01	.9000	.1690-02	.2035-02	1.323	9.508	543.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1418

OH84B 60-0 BODYFLAP EDGE

(R4UL39)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
621	.4994	7.900	39.93	.1380-01	97.55	1235.	91.58	.1084-01	.4736	3706.	.3195-03	.7369-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
621	.1682-01	.5733-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/ TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
621	26.994	5.0640	2192.0	.3875-01	.4696-01	.4696-01	.9000	.6517-03	.7898-03	.4601	3.332	528.7
621	27.265	5.0920	2193.0	.2918-01	.3535-01	.3535-01	.9000	.4908-03	.5946-03	.3472	2.558	527.3
621	27.639	5.1060	2194.0	.2026-01	.2453-01	.2453-01	.9000	.3407-03	.4126-03	.2414	1.751	526.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1419

OH84B 60-0 BODYFLAP EDGE

(R4UL39)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
615	1.002	7.940	39.97	.1384-01	204.7	1261.	92.64	.2202-01	.9716	3746.	.6415-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
615	.2418-01	.4055-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
615	26.994	5.0640	2192.0	.4745-01	.5737-01	.5737-01	.9000	.1147-02	.1387-02	.8357	6.042	532.1
615	27.265	5.0920	2193.0	.3898-01	.4712-01	.4712-01	.9000	.9424-03	.1139-02	.6882	5.061	530.5
615	27.639	5.1060	2194.0	.2588-01	.3124-01	.3124-01	.9000	.6256-03	.7553-03	.4592	3.329	526.7



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1420

OH84B 60-0 BODYFLAP EDGE

(R4UL39)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
593	2.004	7.980	40.00	.1389-01	436.0	1303.	94.84	.4539-01	2.023	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
593	.3509-01	.2867-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
593	26.994	5.0640	2192.0	.6328-01	.7644-01	.7644-01	.9000	.2220-02	.2682-02	1.680	12.06	545.9
593	27.265	5.0920	2193.0	.5137-01	.6201-01	.6201-01	.9000	.1802-02	.2176-02	1.368	9.998	543.4
593	27.639	5.1060	2194.0	.3525-01	.4248-01	.4248-01	.9000	.1237-02	.1490-02	.9475	6.834	536.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1421

OH84B 60-0 BODYFLAP EDGE

(R4UL39)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = -5.000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
579	2.997	7.990	40.02	.1044-01	670.8	1325.	96.21	.6927-01	3.096	3842.	.1943-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
579	.4353-01	.2342-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
579	26.994	5.0640	2192.0	.7679-01	.9292-01	.9292-01	.9000	.3342-02	.4045-02	2.549	18.16	561.9
579	27.265	5.0920	2193.0	.5925-01	.7163-01	.7163-01	.9000	.2579-02	.3118-02	1.976	14.33	558.4
579	27.639	5.1060	2194.0	.4653-01	.5612-01	.5612-01	.9000	.2025-02	.2443-02	1.570	11.25	549.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1422

OH84B 60-0 BODYFLAP EDGE

(R4UL40)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
623	.4983	7.900	39.97	.1384-01	99.83	1256.	93.14	.1109-01	.4847	3737.	.3215-03	.7495-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
623	.1706-01	.5726-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
623	26.994	5.0640	2192.0	.4163-01	.5035-01	.5035-01	.9000	.7104-03	.8591-03	.5151	3.728	530.5
623	27.265	5.0920	2193.0	.2908-01	.3514-01	.3514-01	.9000	.4962-03	.5997-03	.3610	2.658	528.1
623	27.639	5.1060	2194.0	.2405-01	.2906-01	.2906-01	.9000	.4105-03	.4960-03	.2990	2.167	527.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1423

OH84B 60-0 BODYFLAP EDGE

(R4UL40)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
613	1.004	7.940	39.97	.1731-01	204.8	1260.	92.56	.2203-01	.9721	3745.	.6423-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
613	.2418-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
613	26.994	5.0640	2192.0	.5170-01	.6258-01	.6258-01	.9000	.1250-02	.1513-02	.9061	6.542	534.9
613	27.265	5.0920	2193.0	.3812-01	.4609-01	.4609-01	.9000	.9217-03	.1114-02	.6712	4.934	531.5
613	27.639	5.1060	2194.0	.2790-01	.3372-01	.3372-01	.9000	.6746-03	.8152-03	.4927	3.568	529.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1424

OH84B 60-0 BODYFLAP EDGE

(R4UL40)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
595	2.001	7.980	40.02	.1392-01	435.8	1304.	94.91	.4537-01	2.022	3811.	.1290-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
595	.3508-01	.2869-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
595	26.994	5.0640	2192.0	.6964-01	.8418-01	.6418-01	.9000	.2443-02	.2953-02	1.845	13.23	548.6
595	27.265	5.0920	2193.0	.5352-01	.6458-01	.6458-01	.9000	.1877-02	.2266-02	1.428	10.44	542.9
595	27.639	5.1060	2194.0	.4663-01	.5621-01	.5621-01	.9000	.1636-02	.1972-02	1.251	9.017	538.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1425

OH84B 60-0 BODYFLAP EDGE

(R4UL40)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
577	3.019	7.990	40.06	.6989-02	670.3	1318.	95.71	.6922-01	3.093	3832.	.1952-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO. REF (R) =.0175
577	.4347-01	.2335-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
577	26.994	5.0640	2192.0	.8512-01	.1031	.1031	.9000	.3700-02	.4480-02	2.800	19.95	561.0
577	27.265	5.0920	2193.0	.6363-01	.7692-01	.7692-01	.9000	.2766-02	.3344-02	2.110	15.33	554.8
577	27.639	5.1060	2194.0	.5913-01	.7138-01	.7138-01	.9000	.2570-02	.3103-02	1.973	14.13	550.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1426

OH84B 60-0 BODYFLAP EDGE

(R4UL41)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
625	.5056	7.900	39.96	.1729-01	100.1	1246.	92.40	.1112-01	.4859	3723.	.3249-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
625	.1706-01	.5691-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
625	26.994	5.0640	2192.0	.4490-01	.5439-01	.5439-01	.9000	.7660-03	.9279-03	.5469	3.955	531.7
625	27.265	5.0920	2193.0	.3057-01	.3699-01	.3699-01	.9000	.5215-03	.6311-03	.3739	2.753	528.6
625	27.639	5.1060	2194.0	.3086-01	.3735-01	.3735-01	.9000	.5265-03	.6372-03	.3775	2.734	528.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1427

OH84B 60-0 BODYFLAP EDGE

(R4UL41)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
611	.9967	7.940	39.96	.1384-01	204.6	1265.	92.93	.2201-01	.9711	3752.	.6391-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
611	.2418-01	.4064-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
611	26.994	5.0640	2192.0	.5482-01	.6631-01	.6631-01	.9000	.1326-02	.1604-02	.9675	6.985	534.9
611	27.265	5.0920	2193.0	.3862-01	.4663-01	.4663-01	.9000	.9339-03	.1128-02	.6870	5.056	529.1
611	27.639	5.1060	2194.0	.3485-01	.4208-01	.4208-01	.9000	.8428-03	.1018-02	.6208	4.497	528.1



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1428

OH84B 60-0 BODYFLAP EDGE

(R4UL41)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 5.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
597	2.013	7.980	40.02	.1392-01	434.8	1297.	94.40	.4526-01	2.018	3801.	.1294-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
597	.3501-01	.2863-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
597	26.994	5.0640	2192.0	.8349-01	.1010	.1010	.9000	.2923-02	.3535-02	2.189	15.70	547.8
597	27.265	5.0920	2193.0	.6441-01	.7771-01	.7771-01	.9000	.2255-02	.2721-02	1.709	12.51	538.9
597	27.639	5.1060	2194.0	.6801-01	.8202-01	.8202-01	.9000	.2381-02	.2871-02	1.807	13.03	537.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1429

OH84B 60-0 BODYFLAP EDGE

(R4UL41)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 5.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
583	2.999	7.990	40.05	.1396-01	671.1	1325.	96.21	.6930-01	3.097	3842.	.1944-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
583	.4354-01	.2341-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
583	26.994	5.0640	2192.0	.9604-01	.1162	.1162	.9000	.4181-02	.5058-02	3.195	22.77	560.6
583	27.265	5.0920	2193.0	.7417-01	.8945-01	.8945-01	.9000	.3229-02	.3894-02	2.504	18.24	549.2
583	27.639	5.1060	2194.0	.7787-01	.9386-01	.9386-01	.9000	.3390-02	.4086-02	2.635	18.90	547.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1430

OH84B 60-0 BODYFLAP EDGE

(R4UL42)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 8.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
619	.5067	7.900	39.95	.1383-01	99.45	1239.	91.88	.1105-01	.4829	3712.	.3247-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
619	.1699-01	.5689-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
619	26.994	5.0640	2192.0	.4106-01	.4978-01	.4978-01	.9000	.6977-03	.8457-03	.4935	3.570	531.3
619	27.265	5.0920	2193.0	.2894-01	.3505-01	.3505-01	.9000	.4917-03	.5955-03	.3493	2.572	528.2
619	27.639	5.1060	2194.0	.3336-01	.4041-01	.4041-01	.9000	.5668-03	.6836-03	.4024	2.915	528.7

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1431

OH84B 60-O BODYFLAP EDGE

(R4UL42)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 8.000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
617	1.002	7.940	39.97	.1731-01	206.2	1267.	93.08	.2218-01	.9787	3755.	.6431-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
617	.2428-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
617	26.994	5.0640	2192.0	.5269-01	.6375-01	.6375-01	.9000	.1279-02	.1548-02	.9337	6.734	536.9
617	27.265	5.0920	2193.0	.3594-01	.4341-01	.4341-01	.9000	.8728-03	.1054-02	.6421	4.722	530.9
617	27.639	5.1060	2194.0	.3870-01	.4676-01	.4676-01	.9000	.9399-03	.1135-02	.6913	5.001	531.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1432

OH84B 60-0 BODYFLAP EDGE

(R4UL42)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
591	1.988	7.980	40.01	.1391-01	433.9	1306.	95.05	.4517-01	2.013	3814.	.1283-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
591	.3501-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
591	26.994	5.0640	2192.0	.8456-01	.1022	.1022	.9000	.2961-02	.3579-02	2.237	16.03	550.1
591	27.265	5.0920	2193.0	.6779-01	.8176-01	.8176-01	.9000	.2374-02	.2863-02	1.815	13.28	541.1
591	27.639	5.1060	2194.0	.7454-01	.8989-01	.8989-01	.9000	.2610-02	.3148-02	1.995	14.36	541.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1433

OH84B 60-0 BODYFLAP EDGE

(R4UL42)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = 8.000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
589	3.003	7.990	40.07	.1748-01	673.7	1327.	96.36	.6957-01	3.109	3845.	.1949-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
589	.4363-01	.2339-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
589	26.994	5.0640	2192.0	.9931-01	.1202	.1202	.9000	.4333-02	.5244-02	3.310	23.56	562.9
589	27.265	5.0920	2193.0	.7686-01	.9269-01	.9269-01	.9000	.3354-02	.4044-02	2.606	18.98	549.7
589	27.639	5.1060	2194.0	.8524-01	.1028	.1028	.9000	.3719-02	.4485-02	2.889	20.70	549.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1434

OH84B 60-0 BODYFLAP EDGE

(R4UL43)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
627	.5147	7.900	39.95	.1383-01	101.4	1242.	92.10	.1127-01	.4923	3717.	.3302-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
627	.1716-01	.5643-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
627	26.994	5.0640	2192.0	.1641-01	.1987-01	.1987-01	.9000	.2816-03	.3410-03	.2008	1.455	528.6
627	27.265	5.0920	2193.0	.3404-01	.4123-01	.4123-01	.9000	.5843-03	.7076-03	.4162	3.063	529.4
627	27.639	5.1060	2194.0	.5776-01	.7000-01	.7000-01	.9000	.9913-03	.1201-02	.7040	5.091	531.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1435

OH84B 60-0 BODYFLAP EDGE

(R4UL43)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
609	1.024	7.940	39.98	.1386-01	209.1	1261.	92.64	.2249-01	.9925	3746.	.6553-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
609	.2443-01	.4012-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
609	26.994	5.0640	2192.0	.3435-01	.4155-01	.4155-01	.9000	.8393-03	.1015-02	.6103	4.410	533.5
609	27.265	5.0920	2193.0	.4876-01	.5897-01	.5897-01	.9000	.1191-02	.1441-02	.8669	6.367	533.0
609	27.639	5.1060	2194.0	.8223-01	.9953-01	.9953-01	.9000	.2009-02	.2432-02	1.457	10.52	535.5



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1438

OH84B 60-0 BODYFLAP EDGE

(R4UL43)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
599	1.990	7.980	40.04	.1744-01	435.0	1307.	95.13	.4528-01	2.019	3815.	.1285-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC =.0175	STN NO REF (R) =.0175
599	.3506-01	.2876-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
599	26.994	5.0640	2192.0	.1011	.1223	.1223	.9000	.3545-02	.4287-02	2.676	19.15	551.9
599	27.265	5.0920	2193.0	.8354-01	.1008	.1008	.9000	.2929-02	.3533-02	2.241	16.39	541.7
599	27.639	5.1060	2194.0	.1013	.1222	.1222	.9000	.3551-02	.4285-02	2.709	19.47	543.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1437

OH84B 60-0 BODYFLAP EDGE

(R4UL43)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
585	2.982	7.990	40.06	.1397-01	669.7	1328.	96.43	.6916-01	3.091	3846.	.1936-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
585	.4351-01	.2347-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
585	26.994	5.0640	2192.0	.1071	.1297	.1297	.9000	.4662-02	.5644-02	3.556	25.29	564.8
585	27.265	5.0920	2193.0	.9065-01	.1093	.1093	.9000	.3944-02	.4757-02	3.063	22.29	551.2
585	27.639	5.1060	2194.0	.1079	.1303	.1303	.9000	.4695-02	.5667-02	3.631	25.96	554.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1438

OH84B 60-0 BODYFLAP EDGE

(R4UL44)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
629	.5153	7.900	39.95	.1729-01	101.8	1244.	92.25	.1131-01	.4940	3720.	.3309-03	.7423-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
629	.1720-01	.5638-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
629	26.994	5.0640	2192.0	.2389-01	.2892-01	.2892-01	.9000	.4109-03	.4974-03	.2938	2.128	528.7
629	27.265	5.0920	2193.0	.6059-01	.7339-01	.7339-01	.9000	.1042-02	.1262-02	.7428	5.462	530.8
629	27.639	5.1060	2194.0	.1111	.1347	.1347	.9000	.1910-02	.2316-02	1.356	9.793	533.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1439

OH84B 60-0 BODYFLAP EDGE

(R4UL44)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
607	.9872	7.940	39.96	.1383-01	205.3	1276.	93.74	.2208-01	.9744	3769.	.6358-03	.7543-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
607	.2426-01	.4078-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
607	26.994	5.0640	2192.0	.3967-01	.4787-01	.4787-01	.9000	.9624-03	.1161-02	.7163	5.181	531.4
607	27.265	5.0920	2193.0	.8323-01	.1005	.1005	.9000	.2019-02	.2438-02	1.500	11.02	532.7
607	27.639	5.1060	2194.0	.1355	.1637	.1637	.9000	.3286-02	.3972-02	2.428	17.51	536.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1440

OH84B 60-0 BODYFLAP EDGE

(R4UL44)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
601	1.999	7.980	39.99	.1388-01	435.3	1304.	94.91	.4531-01	2.020	3911.	.1289-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
601	.3506-01	.2871-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
601	26.994	5.0640	2192.0	.1092	.1322	.1322	.9000	.3828-02	.4633-02	2.872	20.54	553.6
601	27.265	5.0920	2193.0	.1043	.1260	.1260	.9000	.3657-02	.4417-02	2.771	20.22	546.0
601	27.639	5.1060	2194.0	.1313	.1588	.1588	.9000	.4603-02	.5567-02	3.464	24.81	551.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1441

OH84B 60-0 BODYFLAP EDGE

(R4UL44)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
587	3.006	7.990	40.06	.1398-01	671.3	1323.	96.07	.6933-01	3.098	3839.	.1948-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
587	.4353-01	.2339-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
587	26.994	5.0640	2192.0	.1162	.1407	.1407	.9000	.5057-02	.6126-02	3.832	27.25	564.9
587	27.265	5.0920	2193.0	.1062	.1282	.1282	.9000	.4621-02	.5580-02	3.558	25.88	552.7
587	27.639	5.1060	2194.0	.1351	.1634	.1634	.9000	.5881-02	.7112-02	4.495	32.07	558.3

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1442

OH84B 60-O BODYFLAP EDGE

(R4UL45)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = -5.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
681	.5058	7.900	39.93	-.1034-01	101.2	1255.	93.06	.1125-01	.4913	3736.	.3262-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
681	.1718-01	.5684-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
681	26.994	5.0640	2192.0	.2321-01	.2806-01	.2806-01	.9000	.3988-03	.4820-03	.2898	2.100	528.0
681	27.265	5.0920	2193.0	.1905-01	.2302-01	.2302-01	.9000	.3272-03	.3954-03	.2380	1.753	527.4
681	27.639	5.1060	2194.0	.2013-01	.2433-01	.2433-01	.9000	.3458-03	.4179-03	.2514	1.822	527.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1443

OH84B 60-0 BODYFLAP EDGE

(R4UL45)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
667	1.005	7.940	39.96	-.6922-02	205.3	1261.	92.64	.2208-01	.9744	3746.	.6433-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
667	.2421-01	.4049-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
667	26.994	5.0640	2192.0	.2806-01	.3392-01	.3392-01	.9000	.6794-03	.8212-03	.4957	3.586	531.0
667	27.265	5.0920	2193.0	.2067-01	.2496-01	.2496-01	.9000	.5004-03	.6044-03	.3664	2.698	528.4
667	27.639	5.1060	2194.0	.2163-01	.2614-01	.2614-01	.9000	.5238-03	.6328-03	.3835	2.778	528.5



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1444

OH84B 60-0 BODYFLAP EDGE

(R4UL45)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
687	1.992	7.980	40.00	-6947-02	434.9	1306.	95.05	.4527-01	2.018	3814.	.1285-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
687	.3505-01	.2875-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
687	26.994	5.0640	2192.0	.3729-01	.4491-01	.4491-01	.9000	.1307-02	.1574-02	1.005	7.249	536.8
687	27.265	5.0920	2193.0	.2770-01	.3333-01	.3333-01	.9000	.9711-03	.1168-02	.7505	5.513	532.8
687	27.639	5.1060	2194.0	.3056-01	.3678-01	.3678-01	.9000	.1071-02	.1289-02	.8271	5.976	533.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1445

OH84B 60-0 BODYFLAP EDGE

(R4UL45)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = -5.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
701	2.998	7.990	40.05	-.6978-02	669.5	1323.	96.07	.6914-01	3.090	3839.	.1942-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
701	.4347-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
701	26.994	5.0640	2192.0	.4433-01	.5349-01	.5349-01	.9000	.1927-02	.2325-02	1.489	10.67	550.0
701	27.265	5.0920	2193.0	.3316-01	.3995-01	.3995-01	.9000	.1441-02	.1737-02	1.121	8.189	544.7
701	27.639	5.1060	2194.0	.3871-01	.4666-01	.4666-01	.9000	.1683-02	.2028-02	1.307	9.381	546.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1446

OH84B 60-0 BODYFLAP EDGE

(R4UL46)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
679	.5025	7.900	39.97	-.6923-02	100.5	1255.	93.06	.1117-01	.4881	3736.	.3241-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
679	.1712-01	.5703-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
679	26.994	5.0640	2192.0	.2382-01	.2881-01	.2881-01	.9000	.4078-03	.4932-03	.2954	2.138	530.2
679	27.265	5.0920	2193.0	.2145-01	.2594-01	.2594-01	.9000	.3673-03	.4442-03	.2662	1.958	529.9
679	27.639	5.1060	2194.0	.2369-01	.2865-01	.2865-01	.9000	.4056-03	.4906-03	.2939	2.127	530.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1447

OH84B 60-0 BODYFLAP EDGE

(R4UL46)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
665	1.003	7.940	39.97	-.1732-01	205.8	1265.	92.93	.2213-01	.9768	3752.	.6429-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
665	.2425-01	.4052-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
665	26.994	5.0640	2192.0	.3341-01	.4045-01	.4045-01	.9000	.8104-03	.9812-03	.5890	4.246	537.9
665	27.265	5.0920	2193.0	.2702-01	.3270-01	.3270-01	.9000	.6553-03	.7930-03	.4772	3.499	536.5
665	27.639	5.1060	2194.0	.2824-01	.3419-01	.3419-01	.9000	.6850-03	.8293-03	.4980	3.591	537.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1448

OH84B 60-0 BODYFLAP EDGE

(R4UL46)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
689	1.996	7.980	39.99	-.1041-01	434.3	1303.	94.84	.4521-01	2.015	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
689	.3502-01	.2873-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
689	26.994	5.0640	2192.0	.4166-01	.5027-01	.5027-01	.9000	.1459-02	.1760-02	1.110	7.982	542.1
689	27.265	5.0920	2193.0	.3230-01	.3892-01	.3892-01	.9000	.1131-02	.1363-02	.8656	6.344	537.3
689	27.639	5.1060	2194.0	.3998-01	.4821-01	.4821-01	.9000	.1400-02	.1688-02	1.068	7.691	539.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1449

OH84B 60-0 BODYFLAP EDGE

(R4UL46)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
699	2.999	7.990	40.05	-.6984-02	670.4	1324.	96.14	.6923-01	3.094	3841.	.1944-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
699	.4351-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
699	26.994	5.0640	2192.0	.5002-01	.6035-01	.6035-01	.9000	.2176-02	.2626-02	1.682	12.05	550.7
699	27.265	5.0920	2193.0	.4079-01	.4916-01	.4916-01	.9000	.1775-02	.2139-02	1.381	10.08	545.6
699	27.639	5.1060	2194.0	.5293-01	.6384-01	.6384-01	.9000	.2303-02	.2778-02	1.783	12.78	549.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1450

OH84B 60-0 BODYFLAP EDGE

(R4UL47)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 8.000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT <sup>3</sup>	MU LB-SEC /FT <sup>2</sup>
683	.5030	7.900	39.93	-.6896-02	100.5	1254.	92.99	.1117-01	.4880	3735.	.3242-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
683	.1712-01	.5700-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
683	26.994	5.0640	2192.0	.2760-01	.3338-01	.3338-01	.9000	.4725-03	.5714-03	.3421	2.477	529.5
683	27.265	5.0920	2193.0	.2926-01	.3538-01	.3538-01	.9000	.5008-03	.6057-03	.3627	2.669	529.5
683	27.639	5.1060	2194.0	.3615-01	.4374-01	.4374-01	.9000	.6189-03	.7487-03	.4473	3.236	530.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1451

OH84B 60-0 BODYFLAP EDGE

(R4UL47)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 8.000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
669	1.010	7.940	39.95	-.1037-01	205.9	1259.	92.49	.2215-01	.9773	3743.	.6462-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
669	.2424-01	.4040-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
669	26.994	5.0640	2192.0	.3493-01	.4224-01	.4224-01	.9000	.8466-03	.1024-02	.6151	4.448	532.1
669	27.265	5.0920	2193.0	.3309-01	.4001-01	.4001-01	.9000	.8021-03	.9698-03	.5838	4.293	530.8
669	27.639	5.1060	2194.0	.3975-01	.4809-01	.4809-01	.9000	.9636-03	.1166-02	.6999	5.060	532.4



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1452

OH84B 60-0 BODYFLAP EDGE

(R4UL47)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 8.000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
685	2.023	7.980	39.98	-.6930-02	434.5	1292.	94.03	.4523-01	2.016	3794.	.1298-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
685	.3497-01	.2858-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
685	26.994	5.0640	2192.0	.5098-01	.6152-01	.6152-01	.9000	.1783-02	.2152-02	1.344	9.685	538.1
685	27.265	5.0920	2193.0	.4762-01	.5744-01	.5744-01	.9000	.1666-02	.2009-02	1.259	9.233	535.8
685	27.639	5.1060	2194.0	.6683-01	.8070-01	.8070-01	.9000	.2337-02	.2822-02	1.757	12.65	540.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1453

OH84B 60-0 BODYFLAP EDGE

(R4UL47)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 8.000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
703	2.990	7.990	40.01	-.6955-02	668.4	1324.	96.14	.6903-01	3.085	3841.	.1938-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
703	.4344-01	.2345-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
703	26.994	5.0640	2192.0	.6107-01	.7368-01	.7368-01	.9000	.2653-02	.3201-02	2.052	14.70	550.2
703	27.265	5.0920	2193.0	.5627-01	.6781-01	.6781-01	.9000	.2445-02	.2946-02	1.901	13.87	545.9
703	27.639	5.1060	2194.0	.7940-01	.9582-01	.9582-01	.9000	.3449-02	.4163-02	2.665	19.08	551.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1454

OH84B 60-0 BODYFLAP EDGE

(R4UL48)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BOFLAP = 15.00    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
675	.5021	7.900	39.94	-.6904-02	100.2	1253.	92.91	.1114-01	.4866	3733.	.3235-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
675	.1709-01	.5706-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
675	26.994	5.0640	2192.0	.1487-01	.1799-01	.1799-01	.9000	.2542-03	.3075-03	.1836	1.329	530.1
675	27.265	5.0920	2193.0	.3393-01	.4106-01	.4106-01	.9000	.5798-03	.7017-03	.4180	3.072	531.8
675	27.639	5.1060	2194.0	.5728-01	.6937-01	.6937-01	.9000	.9789-03	.1186-02	.7035	5.081	534.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1455

OH84B 60-0 BODYFLAP EDGE

(R4UL48)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BOFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
673	1.003	7.940	39.97	-.6929-02	205.6	1264.	92.86	.2211-01	.9759	3751.	.6427-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
673	.2424-01	.4052-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
673	26.994	5.0640	2192.0	.2673-01	.3230-01	.3230-01	.9000	.6480-03	.7829-03	.4750	3.437	530.6
673	27.265	5.0320	2193.0	.5191-01	.6275-01	.6275-01	.9000	.1258-02	.1521-02	.9200	6.760	532.4
673	27.639	5.1060	2194.0	.8509-01	.1030	.1030	.9000	.2063-02	.2496-02	1.502	10.84	535.3

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1456

OH84B 60-O BODYFLAP EDGE

(R4UL48)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
 BDFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
691	1.993	7.980	39.99	-.6942-02	434.6	1305.	94.98	.4524-01	2.017	3813.	.1286-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
691	.3504-01	.2875-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
691	26.994	5.0640	2192.0	.5928-01	.7158-01	.7158-01	.9000	.2077-02	.2508-02	1.578	11.33	545.1
691	27.265	5.0920	2193.0	.6865-01	.8289-01	.8289-01	.9000	.2405-02	.2904-02	1.828	13.34	544.9
691	27.639	5.1060	2194.0	.1028	.1243	.1243	.9000	.3603-02	.4357-02	2.718	19.47	550.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1457

OH84B 60-0 BODYFLAP EDGE

(R4UL48)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
697	2.999	7.990	40.00	-.6947-02	668.9	1322.	96.00	.6908-01	3.087	3938.	.1942-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
697	.4345-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
697	26.994	5.0640	2192.0	.7700-01	.9291-01	.9291-01	.9000	.3346-02	.4037-02	2.582	18.50	549.9
697	27.265	5.0920	2193.0	.7544-01	.9094-01	.9094-01	.9000	.3278-02	.3951-02	2.542	18.55	546.1
697	27.639	5.1060	2194.0	.1034	.1250	.1250	.9000	.4495-02	.5429-02	3.452	24.69	553.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1458

OH84B 60-0 BODYFLAP EDGE

(R4UL49)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 5.000  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
677	.5060	7.900	39.96	-.6920-02	101.1	1254.	92.99	.1124-01	.4909	3735.	.3262-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
677	.1717-01	.5684-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
677	26.994	5.0640	2192.0	.2057-01	.2487-01	.2487-01	.9000	.3531-03	.4270-03	.2559	1.853	529.0
677	27.265	5.0920	2193.0	.4942-01	.5979-01	.5979-01	.9000	.8485-03	.1026-02	.6134	4.511	530.8
677	27.639	5.1060	2194.0	.9459-01	.1145	.1145	.9000	.1624-02	.1966-02	1.170	8.451	533.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1459

OH84B 60-0 BODYFLAP EDGE

(R4UL49)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
671	1.007	7.940	39.96	-.1038-01	204.7	1257.	92.34	.2202-01	.9716	3740.	.6435-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
671	.2416-01	.4047-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
671	26.994	5.0640	2192.0	.3891-01	.4710-01	.4710-01	.9000	.9402-03	.1138-02	.6795	4.908	534.0
671	27.265	5.0920	2193.0	.8563-01	.1037	.1037	.9000	.2069-02	.2507-02	1.489	10.91	537.0
671	27.639	5.1060	2194.0	.1383	.1677	.1677	.9000	.3341-02	.4053-02	2.391	17.21	541.1



DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1460

OH84B 60-O BODYFLAP EDGE

(R4UL49)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
 BDFLAP = 23.50 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
693	2.000	7.980	40.00	-1.1042-01	434.5	1302.	94.76	.4523-01	2.016	3808.	.1288-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
693	.3502-01	.2871-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
693	26.994	5.0640	2192.0	.7651-01	.9235-01	.9235-01	.9000	.2679-02	.3234-02	2.033	14.62	542.8
693	27.265	5.0920	2193.0	.1014	.1224	.1224	.9000	.3550-02	.4286-02	2.690	19.65	543.9
693	27.639	5.1060	2194.0	.1342	.1623	.1623	.9000	.4700-02	.5684-02	3.532	25.30	550.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1461

OH84B 60-0 BODYFLAP EDGE

(R4UL49)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
695	3.030	7.990	40.02	-.6963-02	669.0	1313.	95.34	.6909-01	3.087	3825.	.1956-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
695	.4340-01	.2332-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
695	26.994	5.0640	2192.0	.9198-01	.1112	.1112	.9000	.3992-02	.4825-02	3.036	21.73	552.1
695	27.265	5.0920	2193.0	.9568-01	.1156	.1156	.9000	.4153-02	.5016-02	3.166	23.05	550.2
695	27.639	5.1060	2194.0	.1306	.1582	.1582	.9000	.5669-02	.6865-02	4.270	30.45	559.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1462

OH84B 60-0 BODYFLAP EDGE

(R4UL50)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
767	.5029	7.900	39.98	-.3466-02	100.1	1251.	92.77	.1113-01	.4863	3730.	.3238-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
767	.1708-01	.5703-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
767	26.994	5.0640	2192.0	.2198-01	.2660-01	.2660-01	.9000	.3753-03	.4543-03	.2699	1.952	531.5
767	27.265	5.0920	2193.0	.2188-01	.2649-01	.2649-01	.9000	.3738-03	.4525-03	.2687	1.975	531.7
767	27.639	5.1060	2194.0	.2652-01	.3213-01	.3213-01	.9000	.4530-03	.5487-03	.3249	2.348	533.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1463

OH84B 60-0 BODYFLAP EDGE

(R4UL50)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
757	1.043	7.940	39.99	-1.4654-06	214.1	1265.	92.93	.2302-01	1.016	3752.	.6687-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
757	.2474-01	.3973-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
757	26.994	5.0640	2192.0	.2556-01	.3092-01	.3092-01	.9000	.6323-03	.7648-03	.4616	3.333	534.7
757	27.265	5.0920	2193.0	.2522-01	.3050-01	.3050-01	.9000	.6238-03	.7545-03	.4553	3.342	534.7
757	27.639	5.1060	2194.0	.3114-01	.3768-01	.3768-01	.9000	.7703-03	.9321-03	.5615	4.052	535.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1464

OH84B 60-0 BODYFLAP EDGE

(R4UL50)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
755	1.966	7.980	40.06	-.4684-06	429.7	1307.	95.13	.4474-01	1.994	3815.	.1269-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
755	.3485-01	.2894-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
755	26.994	5.0640	2192.0	.3013-01	.3630-01	.3630-01	.9000	.1050-02	.1265-02	.8080	5.826	537.3
755	27.265	5.0920	2193.0	.2874-01	.3462-01	.3462-01	.9000	.1002-02	.1207-02	.7708	5.650	537.2
755	27.639	5.1060	2194.0	.3832-01	.4620-01	.4620-01	.9000	.1335-02	.1610-02	1.023	7.366	540.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1465

OH84B 60-0 BODYFLAP EDGE

(R4UL50)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
745	3.041	7.990	40.06	-.3495-02	670.5	1312.	95.27	.6924-01	3.094	3823.	.1962-02	.7666-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
745	.4344-01	.2328-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
745	26.994	5.0640	2192.0	.3600-01	.4338-01	.4338-01	.9000	.1564-02	.1885-02	1.204	8.668	541.4
745	27.265	5.0920	2193.0	.3679-01	.4434-01	.4434-01	.9000	.1598-02	.1926-02	1.231	9.005	541.4
745	27.639	5.1060	2194.0	.5320-01	.6420-01	.6420-01	.9000	.2311-02	.2789-02	1.769	12.70	546.2

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1466

OH84B 60-O BODYFLAP EDGE

(R4UL51)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
765	.5049	7.900	39.98	-.3466-02	100.4	1250.	92.69	.1116-01	.4875	3729.	.3249-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
765	.1710-01	.5692-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
765	26.994	5.0640	2192.0	.1667-01	.2016-01	.2016-01	.9000	.2850-03	.3447-03	.2058	1.491	527.7
765	27.265	5.0920	2193.0	.3280-01	.3971-01	.3971-01	.9000	.5608-03	.6790-03	.4027	2.960	531.6
765	27.639	5.1060	2194.0	.5703-01	.6914-01	.6914-01	.9000	.9751-03	.1182-02	.6958	5.021	536.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1467

OH84B 60-0 BODYFLAP EDGE

(R4UL51)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 15.00 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
759	1.001	7.940	39.99	-.4655-06	206.7	1270.	93.30	.2224-01	.9813	3760.	.6433-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
759	.2433-01	.4053-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
759	26.994	5.0640	2192.0	.2970-01	.3589-01	.3589-01	.9000	.7224-03	.8731-03	.5313	3.838	534.2
759	27.265	5.0920	2193.0	.4999-01	.6046-01	.6046-01	.9000	.1216-02	.1471-02	.8918	6.540	536.4
759	27.639	5.1060	2194.0	.7741-01	.9370-01	.9370-01	.9000	.1883-02	.2279-02	1.375	9.909	539.3



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 BODYFLAP EDGE

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(R4UL51)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BOFLAP = 15.00    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
753	2.020	7.980	40.04	-4678-06	434.4	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
753	.3498-01	.2859-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
753	26.994	5.0640	2192.0	.3879-01	.4684-01	.4684-01	.9000	.1357-02	.1638-02	1.020	7.343	540.8
753	27.265	5.0920	2193.0	.4072-01	.4916-01	.4916-01	.9000	.1424-02	.1720-02	1.072	7.843	540.2
753	27.639	5.1060	2194.0	.6067-01	.7335-01	.7335-01	.9000	.2122-02	.2565-02	1.587	11.40	544.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1469

OH84B 60-0 BODYFLAP EDGE

(R4UL51)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 15.00 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
747	2.979	7.990	40.06	-.4686-06	660.0	1316.	95.56	.6816-01	3.046	3829.	.1925-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
747	.4312-01	.2351-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
747	26.994	5.0640	2192.0	.3871-01	.4663-01	.4663-01	.9000	.1669-02	.2011-02	1.292	9.301	541.4
747	27.265	5.0920	2193.0	.4015-01	.4837-01	.4837-01	.9000	.1731-02	.2086-02	1.340	9.798	541.8
747	27.639	5.1060	2194.0	.5718-01	.6899-01	.6899-01	.9000	.2466-02	.2975-02	1.895	13.60	547.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1470

OH84B 60-0 BODYFLAP EDGE

(R4UL52)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500  
BDFLAP = 23.50 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
763	.4981	7.900	39.97	-.3462-02	99.31	1252.	92.84	.1104-01	.4822	3732.	.3209-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
763	.1701-01	.5729-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
763	26.994	5.0640	2192.0	.2204-01	.2671-01	.2671-01	.9000	.3750-03	.4543-03	.2687	1.939	535.2
763	27.265	5.0920	2193.0	.5068-01	.6144-01	.6144-01	.9000	.8620-03	.1045-02	.6159	4.515	537.1
763	27.639	5.1060	2194.0	.1070	.1299	.1299	.9000	.1821-02	.2210-02	1.295	9.320	540.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1471

OH84B 60-0 BODYFLAP EDGE

(R4UL52)

BODYFLAP EDGE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
BDFLAP = 23.50    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
761	1.006	7.940	39.99	-.4652-06	206.4	1265.	92.93	.2220-01	.9799	3752.	.6449-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC =.0175	STN NO REF(R) =.0175
761	.2429-01	.4046-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
761	26.994	5.0640	2192.0	.3775-01	.4570-01	.4570-01	.9000	.9171-03	.1110-02	.6673	4.812	537.1
761	27.265	5.0920	2193.0	.8296-01	.1005	.1005	.9000	.2015-02	.2442-02	1.458	10.67	541.1
761	27.639	5.1060	2194.0	.1384	.1679	.1679	.9000	.3361-02	.4079-02	2.415	17.34	546.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1472

OH84B 60-0 BODYFLAP EDGE

(R4UL52)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
751	1.987	7.980	40.06	-4.685-06	435.2	1309.	95.27	.4531-01	2.020	3818.	.1284-02	.7667-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
751	.3508-01	.2878-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
751	26.994	5.0640	2192.0	.7309-01	.8820-01	.8820-01	.9000	.2564-02	.3094-02	1.960	14.08	544.5
751	27.265	5.0920	2193.0	.1014	.1225	.1225	.9000	.3559-02	.4298-02	2.708	19.74	547.8
751	27.639	5.1060	2194.0	.1368	.1655	.1655	.9000	.4799-02	.5807-02	3.618	25.86	554.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1473

OH84B 60-0 BODYFLAP EDGE

(R4UL52)

BODYFLAP EDGE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = 7.500  
 BDFLAP = 23.50    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
749	2.958	7.990	40.06	-.4686-06	659.9	1322.	96.00	.6815-01	3.045	3838.	.1916-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
749	.4315-01	.2358-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
749	26.994	5.0640	2192.0	.8209-01	.9905-01	.9905-01	.9000	.3542-02	.4274-02	2.734	19.59	549.9
749	27.265	5.0920	2193.0	.9978-01	.1205	.1205	.9000	.4306-02	.5201-02	3.307	24.03	553.8
749	27.639	5.1060	2194.0	.1330	.1611	.1611	.9000	.5739-02	.6950-02	4.354	30.99	563.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1474

OH84B 60-0 VERTICAL TAIL

(R4UM01)

## VERTICAL TAIL

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 25.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = 49.00

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
9	1.019	7.940	24.97	.5591-06	205.0	1248.	91.68	.2205-01	.9732	3727.	.6492-03	.7378-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
9	.2415-01	.4026-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
9	26.091	9.3030	2368.0	.1879-02	.2280-02	.2280-02	.9000	.4539-04	.5506-04	.3227-01	.2366	536.8

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1475

OH84B 60-O VERTICAL TAIL

(R4UM01)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 25.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = 49.00

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
8	1.994	7.980	24.96	.5594-06	433.2	1302.	94.76	.4510-01	2.010	3808.	.1284-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
8	.3497-01	.2875-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
8	26.091	9.3030	2368.0	.1071-02	.1290-02	.1290-02	.9000	.3745-04	.4510-04	.2872-01	.2108	534.7



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1476

OH84B 60-0 VERTICAL TAIL

(R4UM01)

## VERTICAL TAIL

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 25.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = 49.00

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
7	2.996	7.990	24.92	.5613-06	666.7	1320.	95.85	.6885-01	3.077	3835.	.1939-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
7	.4336-01	.2344-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
7	26.091	9.3030	2368.0	.9335-03	.1123-02	.1123-02	.9000	.4048-04	.4871-04	.3162-01	.2316	538.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1477

OH84B 60-0 VERTICAL TAIL

(R4UM01)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 25.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = 49.00

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
6	3.633	8.000	24.95	.1253-01	846.7	1358.	98.38	.8672-01	3.885	3890.	.2379-02	.7917-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
6	.4897-01	.2122-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
6	26.091	9.3030	2368.0	.1164-02	.1392-02	.1392-02	.9000	.5698-04	.6818-04	.4709-01	.3462	531.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1478

OH84B 60-0 VERTICAL TAIL

(R4UM02)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -4.000    ELEVON = .0000  
BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
155	2.001	7.980	29.94	-4.041	434.3	1301.	94.69	.4522-01	2.016	3807.	.1289-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
155	.3501-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
155	26.091	9.3030	2368.0	.1106-02	.1330-02	.1330-02	.9000	.3872-04	.4655-04	.2992-01	.2203	527.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1479

OH84B 60-0 VERTICAL TAIL

(R4UM02)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
116	2.983	7.990	29.94	-4.039	669.2	1327.	96.36	.6911-01	3.088	3845.	.1936-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
116	.4349-01	.2347-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
116	26.091	9.3030	2368.0	.9166-03	.1099-02	.1099-02	.9000	.3986-04	.4779-04	.3187-01	.2348	527.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1480

OH84B 60-0 VERTICAL TAIL

(R4UM02)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PC PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
129	3.686	8.000	29.95	-4.052	853.2	1352.	97.95	.8740-01	3.915	3881.	.2408-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
129	.4912-01	.2108-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
129	26.091	9.3030	2368.0	.8938-03	.1069-02	.1069-02	.9000	.4391-04	.5253-04	.3614-01	.2660	528.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1481

OH84B 60-0 VERTICAL TAIL

(R4UM03)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -2.000    ELEVON = .0000  
BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
152	1.983	7.980	29.96	-2.027	434.4	1309.	95.27	.4523-01	2.016	3818.	.1281-02	.7667-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
152	.3505-01	.2881-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
152	26.091	9.3030	2368.0	.1133-02	.1361-02	.1361-02	.9000	.3972-04	.4772-04	.3101-01	.2284	527.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1482

OH84B 60-0 VERTICAL TAIL

(R4UM03)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
113	2.997	7.990	29.96	-2.021	672.2	1327.	96.36	.6942-01	3.102	3845.	.1944-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
113	.4358-01	.2342-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
113	26.091	9.3030	2368.0	.1087-02	.1303-02	.1303-02	.9000	.4737-04	.5679-04	.3789-01	.2792	526.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1483

OH84B 60-0 VERTICAL TAIL

(R4UM03)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
126	3.688	8.000	29.95	-2.013	853.6	1352.	97.95	.8744-01	3.917	3881.	.2409-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
126	.4913-01	.2107-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
126	26.091	9.3030	2368.0	.1054-02	.1261-02	.1261-02	.9000	.5179-04	.6195-04	.4265-01	.3141	528.1



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1484

OH84B 60-0 VERTICAL TAIL

(R4UM04)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
149	2.015	7.980	29.95	-1.011	435.2	1297.	94.40	.4531-01	2.020	3801.	.1295-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
149	.3503-01	.2862-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
149	26.091	9.3030	2368.0	.8649-03	.1041-02	.1041-02	.9000	.3029-04	.3646-04	.2324-01	.1710	529.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1485

OH84B 60-0 VERTICAL TAIL

(R4UM04)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000  
BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
110	3.010	7.990	29.96	-1.9974	670.7	1321.	95.92	.6926-01	3.095	3836.	.1949-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
110	.4350-01	.2338-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
110	26.091	9.3030	2368.0	.1045-02	.1253-02	.1253-02	.9000	.4545-04	.5453-04	.3608-01	.2658	527.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1486

OH84B 60-0 VERTICAL TAIL

(R4UM04)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -1.000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
122	3.694	8.000	30.04	-.9752	852.2	1349.	97.73	.8729-01	3.911	3877.	.2411-02	.7864-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
122	.4907-01	.2106-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
122	26.091	9.3030	2368.0	.9942-03	.1190-02	.1190-02	.9000	.4879-04	.5839-04	.4003-01	.2947	528.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1487

OH84B 60-0 VERTICAL TAIL

(R4UM06)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
10	.5027	7.900	29.95	.4910-02	98.66	1239.	91.88	.1097-01	.4790	3712.	.3221-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
10	.1692-01	.5712-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
10	26.091	9.3030	2368.0	.3344-03	.4060-03	.4060-03	.9000	.5660-05	.6871-05	.3975-02	.2915-01	536.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1488

OH84B 60-0 VERTICAL TAIL

(R4UM06)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
47	2.016	7.980	29.96	.2452-02	435.5	1297.	94.40	.4534-01	2.021	3801.	.1296-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
47	.3504-01	.2861-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
47	26.091	9.3030	2368.0	.7114-03	.8563-03	.8563-03	.9000	.2492-04	.3000-04	.1910-01	.1404	530.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1489

OH84B 60-0 VERTICAL TAIL

(R4UM06)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
76	3.039	7.990	29.97	.3283-06	671.6	1314.	95.41	.6936-01	3.099	3826.	.1962-02	.7678-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
76	.4349-01	.2329-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
76	26.091	9.3030	2368.0	.9426-03	.1132-02	.1132-02	.9000	.4099-04	.4921-04	.3225-01	.2377	526.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1490

OH84B 60-0 VERTICAL TAIL

(R4UM06)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
119	3.691	8.000	29.96	.4900-02	862.0	1360.	98.53	.8830-01	3.956	3893.	.2419-02	.7928-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
119	.4943-01	.2105-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
119	26.091	9.3030	2368.0	.7025-03	.8410-03	.8410-03	.9000	.3472-04	.4157-04	.2866-01	.2104	534.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1491

OH84B 60-0 VERTICAL TAIL

(R4UM08)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = 1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
50	2.048	7.980	29.94	1.035	434.8	1282.	93.31	.4526-01	2.018	3779.	.1309-02	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
50	.3494-01	.2843-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
50	26.091	9.3030	2368.0	.6762-03	.8141-03	.8141-03	.9000	.2362-04	.2844-04	.1787-01	.1318	525.1



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL  
OH84B 60-0 VERTICAL TAIL

PAGE 1492

(R4UM10)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
54	1.990	7.980	29.95	2.038	434.8	1307.	95.13	.4526-01	2.018	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
54	.3506-01	.2877-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
54	26.091	9.3030	2368.0	.2554-03	.3060-03	.3060-03	.9000	.8953-05	.1073-04	.7070-02	.5236-01	517.0

DATE 23 FEB 90

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1483

OH84B 60-0 VERTICAL TAIL

(R4UM11)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -4.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
164	2.005	7.980	34.98	-4.049	435.7	1302.	94.76	.4536-01	2.022	3808.	.1292-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
164	.3507-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
164	26.091	9.3030	2368.0	.7704-03	.9262-03	.9262-03	.9000	.2702-04	.3248-04	.2091-01	.1540	527.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1494

OH84B 60-0 VERTICAL TAIL

(R4UM11)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
107	3.001	7.990	34.98	-4.050	670.2	1323.	96.07	.6921-01	3.093	3839.	.1944-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
107	.4350-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
107	26.091	9.3030	2368.0	.8842-03	.1060-02	.1060-02	.9000	.3846-04	.4611-04	.3065-01	.2260	525.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1495

OH84B 60-0 VERTICAL TAIL

(R4UM11)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
141	3.699	8.000	35.01	-3.996	856.0	1352.	97.95	.8768-01	3.928	3881.	.2416-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
141	.4920-01	.2105-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
141	26.091	9.3030	2368.0	.9185-03	.1099-02	.1099-02	.9000	.4519-04	.5409-04	.3712-01	.2730	530.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1496

OH84B 60-0 VERTICAL TAIL

(R4UM12)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
161	2.002	7.980	34.99	-2.012	436.0	1304.	94.91	.4539-01	2.023	3811.	.1291-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
161	.3509-01	.2869-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
161	26.091	9.3030	2368.0	.9306-03	.1119-02	.1119-02	.9000	.3266-04	.3926-04	.2532-01	.1864	528.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1497

OH84B 60-0 VERTICAL TAIL

(R4UM12)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
104	3.010	7.990	35.01	-1.989	670.6	1321.	95.92	.6925-01	3.095	3836.	.1949-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
104	.4350-01	.2338-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
104	26.091	9.3030	2368.0	.8488-03	.1018-02	.1018-02	.9000	.3692-04	.4430-04	.2927-01	.2156	527.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL  
OH84B 60-0 VERTICAL TAIL

PAGE 1498

(R4UM12)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
138	3.668	8.000	35.03	-1.972	849.0	1352.	97.95	.8696-01	3.896	3881.	.2396-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
138	.4900-01	.2113-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
138	26.091	9.3030	2368.0	.8098-03	.9703-03	.9703-03	.9000	.3968-04	.4755-04	.3242-01	.2379	534.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1499

OH84B 60-0 VERTICAL TAIL

(R4UM13)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
158	2.023	7.980	35.02	- .9923	435.0	1293.	94.11	.4529-01	2.019	3795.	.1299-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
158	.3500-01	.2857-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
158	26.091	9.3030	2368.0	.7794-03	.9391-03	.9391-03	.9000	.2728-04	.3287-04	.2073-01	.1523	532.6



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1500

OH84B 60-0 VERTICAL TAIL

(R4UM13)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -1.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
101	2.984	7.990	35.02	-.9871	670.0	1328.	96.43	.6919-01	3.092	3846.	.1937-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
101	.4352-01	.2346-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
101	26.091	9.3030	2368.0	.9011-03	.1082-02	.1082-02	.9000	.3921-04	.4709-04	.3113-01	.2286	533.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1501

OH84B 60-0 VERTICAL TAIL

(R4UM13)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -1.000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
135	3.683	8.000	35.07	-.9652	852.5	1352.	97.95	.8732-01	3.912	3881.	.2406-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
135	.4910-01	.2109-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
135	26.091	9.3030	2368.0	.1014-02	.1214-02	.1214-02	.9000	.4980-04	.5961-04	.4092-01	.3010	530.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1502

OH84B 60-0 VERTICAL TAIL

(R4UM14)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = .0000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
13	.5302	7.900	34.97	.2130-02	104.2	1240.	91.95	.1158-01	.5059	3714.	.3399-03	.7399-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
13	.1739-01	.5561-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
13	26.091	9.3030	2368.0	.6797-03	.8238-03	.8238-03	.9000	.1182-04	.1433-04	.8378-02	.6160-01	531.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1503

OH84B 60-0 VERTICAL TAIL

(R4UM14)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = .0000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
132	3.694	8.000	35.03	.6883-03	854.1	1351.	97.87	.8749-01	3.919	3880.	.2413-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
132	.4914-01	.2106-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
132	26.091	9.3030	2368.0	.1260-02	.1508-02	.1508-02	.9000	.6190-04	.7408-04	.5085-01	.3742	529.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1504

OH84B 60-0 VERTICAL TAIL

(R4UM15)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
201	.4945	7.900	39.95	-10.05	100.2	1266.	93.88	.1114-01	.4867	3752.	.3203-03	.7554-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
201	.1712-01	.5741-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
201	26.091	9.3030	2368.0	.1894-03	.2286-03	.2286-03	.9000	.3243-05	.3914-05	.2395-02	.1764-01	527.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1505

OH84B 60-0 VERTICAL TAIL

(R4UM15)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
188	1.010	7.940	39.95	-10.05	204.4	1253.	92.05	.2199-01	.9703	3734.	.6447-03	.7407-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
188	.2413-01	.4042-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
188	26.091	9.3030	2368.0	.6592-03	.7956-03	.7956-03	.9000	.1591-04	.1920-04	.1163-01	.8587-01	522.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1506

OH84B 60-0 VERTICAL TAIL

(R4UM15)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
170	1.999	7.980	39.98	-10.08	434.3	1302.	94.76	.4522-01	2.016	3808.	.1288-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
170	.3501-01	.2872-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
170	26.091	9.3030	2368.0	.8184-03	.9841-03	.9841-03	.9000	.2866-04	.3446-04	.2215-01	.1631	528.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1507

OH84B 60-0 VERTICAL TAIL

(R4UM15)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000  
BDELAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
98	2.982	7.990	40.02	-10.11	669.7	1328.	96.43	.6916-01	3.091	3846.	.1936-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
98	.4351-01	.2347-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
98	.26 .091	9.3030	2368.0	.9260-03	.1111-02	.1111-02	.9000	.4029-04	.4833-04	.3215-01	.2365	529.7

R4UM16



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1508

OH84B 60-0 VERTICAL TAIL

(R4UM17)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
 BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
198	.4952	7.900	39.96	-3.985	99.19	1256.	93.14	.1102-01	.4816	3737.	.3195-03	.7495-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
198	.1701-01	.5744-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QOOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
198	26.091	9.3030	2368.0	.3185-03	.3846-03	.3846-03	.9000	.5418-05	.6541-05	.3962-02	.2923-01	524.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1509

OH84B 60-0 VERTICAL TAIL

(R4UM17)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
185	.9852	7.940	39.97	-3.981	202.7	1267.	93.08	.2180-01	.9622	3755.	.6323-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
185	.2408-01	.4087-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
185	26.091	9.3030	2368.0	.8222-03	.9909-03	.9909-03	.9000	.1980-04	.2386-04	.1473-01	.1087	522.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1510

OH84B 60-0 VERTICAL TAIL

(R4UM17)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
176	1.997	7.980	39.97	-3.999	436.5	1307.	95.13	.4544-01	2.026	3815.	.1289-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
176	.3513-01	.2871-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
176	26.091	9.3030	2368.0	.8207-03	.9861-03	.9861-03	.9000	.2883-04	.3464-04	.2246-01	.1655	527.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1511

OH84B 60-0 VERTICAL TAIL

(R4UM17)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
97	2.987	7.990	40.01	-4.020	670.8	1328.	96.43	.6927-01	3.096	3846.	.1939-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
97	.4354-01	.2345-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
97	26.091	9.3030	2368.0	.1085-02	.1302-02	.1302-02	.9000	.4726-04	.5669-04	.3771-01	.2774	529.8

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1512

OH84B 60-O VERTICAL TAIL

(R4UM18)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
195	.4938	7.900	39.96	-1.991	98.69	1254.	92.99	.1097-01	.4792	3735.	.3184-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
195	.1696-01	.5753-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
195	26.091	9.3030	2368.0	.8169-03	.9864-03	.9864-03	.9000	.1386-04	.1673-04	.1011-01	.7461-01	524.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1513

OH84B 60-0 VERTICAL TAIL

(R4UM18)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
182	1.011	7.940	39.97	-1.995	206.3	1260.	92.56	.2219-01	.9793	3745.	.6470-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
182	.2427-01	.4037-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
182	26.091	9.3030	2368.0	.9325-03	.1125-02	.1125-02	.9000	.2263-04	.2731-04	.1663-01	.1227	524.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1514

OH84B 60-0 VERTICAL TAIL

(R4UM18)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
173	2.017	7.980	39.99	-2.004	436.3	1298.	94.47	.4542-01	2.025	3802.	.1298-02	.7602-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
173	.3508-01	.2860-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
173	26.091	9.3030	2368.0	.3974-03	.4786-03	.4786-03	.9000	.1394-04	.1679-04	.1066-01	.7835-01	532.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1515

OH84B 60-0 VERTICAL TAIL

(R4UM18)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
89	3.018	7.990	40.02	-2.030	669.3	1317.	95.63	.6912-01	3.089	3830.	.1951-02	.7696-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
89	.4343-01	.2336-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
89	26.091	9.3030	2368.0	.8629-03	.1035-02	.1035-02	.9000	.3748-04	.4494-04	.2972-01	.2194	523.6



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1516

OH84B 60-0 VERTICAL TAIL

(R4UM20)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -1.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
191	.5026	7.900	39.96	-9.984	99.61	1247.	92.47	.1107-01	.4836	3724.	.3231-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
191	.1702-01	.5707-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
191	26.091	9.3030	2368.0	.6384-03	.7724-03	.7724-03	.9000	.1087-04	.1315-04	.7807-02	.5749-01	528.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1517

OH84B 60-0 VERTICAL TAIL

(R4UM21)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
192	.5105	7.900	39.99	-1.007	101.0	1246.	92.40	.1123-01	.4906	3723.	.3281-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
192	.1714-01	.5663-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
192	26.091	9.3030	2368.0	.9267-03	.1120-02	.1120-02	.9000	.1589-04	.1921-04	.1145-01	.8444-01	525.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1518

OH84B 60-0 VERTICAL TAIL

(R4UM21)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
179	1.009	7.940	39.99	-1.007	205.6	1259.	92.49	.2212-01	.9760	3743.	.6454-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
179	.2422-01	.4042-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
179	26.091	9.3030	2368.0	.5814-03	.7033-03	.7033-03	.9000	.1408-04	.1704-04	.1023-01	.7513-01	532.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1519

OH84B 60-0 VERTICAL TAIL

(R4UM21)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
167	2.003	7.980	40.01	-1.009	434.6	1301.	94.69	.4525-01	2.017	3807.	.1290-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF.(R) =.0175
167	.3502-01	.2869-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
167	26.091	9.3030	2368.0	.6572-03	.7905-03	.7905-03	.9000	.2302-04	.2768-04	.1775-01	.1306	529.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1520

OH84B 60-0 VERTICAL TAIL

(R4UM21)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
85	3.028	7.990	40.08	-1.034	670.0	1315.	95.49	.6919-01	3.092	3827.	.1956-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
85	.4344-01	.2333-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
85	26.091	9.3030	2368.0	.7804-02	.9345-02	.9345-02	.9000	.3390-03	.4060-03	.2703	2.001	517.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1521

OH84B 60-0 VERTICAL TAIL

(R4UM22)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
16	.5159	7.900	40.01	-.3149-02	102.0	1245.	92.32	.1134-01	.4952	3721.	.3314-03	.7429-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
16	.1722-01	.5634-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
16	26.091	9.3030	2368.0	.1036-02	.1254-02	.1254-02	.9000	.1785-04	.2159-04	.1282-01	.9446-01	526.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1522

OH84B 60-0 VERTICAL TAIL

(R4UM22)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BOFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
32	1.002	7.940	40.01	-1.1050-02	205.9	1266.	93.00	.2215-01	.9775	3754.	.6428-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
32	.2427-01	.4053-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF P=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
32	26.091	9.3030	2368.0	.8249-03	.9947-03	.9947-03	.9000	.2002-04	.2414-04	.1484-01	.1095	524.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1523

OH84B 60-0 VERTICAL TAIL

(R4UM22)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
82	3.020	7.990	40.05	-1.1434-06	669.7	1317.	95.63	.6916-01	3.091	3830.	.1952-02	.7696-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
82	.4344-01	.2335-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
82	26.091	9.3030	2368.0	.7319-03	.8781-03	.8781-03	.9000	.3180-04	.3815-04	.2514-01	.1854	525.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1524

OH84B 60-0 VERTICAL TAIL

(R4UM22)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
145	3.684	8.000	40.10	-1.1083-02	853.6	1353.	98.02	.8744-01	3.917	3883.	.2408-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
145	.4914-01	.2108-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
145	26.091	9.3030	2368.0	.1654-02	.1980-02	.1980-02	.9000	.8129-04	.9728-04	.6689-01	.4922	529.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1525

OH84B 60-0 VERTICAL TAIL

(R4UM25)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
20	.5050	7.900	40.03	1.041	100.6	1251.	92.77	.1118-01	.4882	3730.	.3252-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
20	.1711-01	.5691-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
20	26.091	9.3030	2368.0	.6231-03	.7528-03	.7528-03	.9000	.1066-04	.1288-04	.7738-02	.5707-01	525.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1526

OH84B 60-0 VERTICAL TAIL

(R4UM25)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
35	1.011	7.940	40.05	1.018	204.7	1254.	92.12	.2202-01	.9718	3736.	.6452-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	SIN NO REF(R) =.0175
35	.2416-01	.4041-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
35	26.091	9.3030	2368.0	.6980-03	.8432-03	.8432-03	.9000	.1686-04	.2037-04	.1227-01	.9048-01	525.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1527

OH84B 60-0 VERTICAL TAIL

(R4UM25)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 1.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
70	2.009	7.980	40.07	1.025	435.0	1299.	94.54	.4529-01	2.019	3804.	.1293-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
70	.3503-01	.2865-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
70	26.091	9.3030	2368.0	.3256-03	.3913-03	.3913-03	.9000	.1140-04	.1371-04	.8816-02	.6500-01	525.7

DATE 23 FEB 80

OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1528

OH848 60-0 VERTICAL TAIL

(R4UM26)

## VERTICAL TAIL

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 2.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
23	.5076	7.900	40.00	2.019	101.2	1252.	92.84	.1125-01	.4913	3732.	.3270-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
23	.1717-01	.5676-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/T0	TAW/T0	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
23	26.091	9.3030	2368.0	.4241-03	.5122-03	.5122-03	.9000	.7282-05	.8795-05	.5299-02	.3911-01	523.9

DATE 23 FEB 80

OH84B MODEL 50-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1529

OH84B 50-0 VERTICAL TAIL

(R4UM26)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 2.000    ELEVON = .0000  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
38	1.003	7.940	40.02	2.013	203.6	1256.	92.27	.2190-01	.9666	3739.	.6407-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
38	.2410-01	.4056-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
38	26.091	9.3030	2368.0	.4626-03	.5585-03	.5585-03	.9000	.1115-04	.1346-04	.8154-02	.6016-01	524.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 VERTICAL TAIL

(R4UM26)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 2.000    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
67	2.005	7.980	40.04	2.021	434.1	1299.	94.54	.4519-01	2.014	3804.	.1290-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
67	.3499-01	.2868-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
67	26.091	9.3030	2368.0	.1291-02	.1549-02	.1549-02	.9000	.4516-04	.5421-04	.3516-01	.2599	520.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1531

OH84B 60-0 VERTICAL TAIL

(R4UM27)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000  
BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
26	.5059	7.900	40.02	4.008	100.6	1250.	92.69	.1118-01	.4885	3729.	.3256-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
26	.1712-01	.5687-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
26	26.091	9.3030	2368.0	.3531-03	.4265-03	.4265-03	.9000	.6043-05	.7300-05	.4386-02	.3237-01	523.9



DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1532

OH84B 60-0 VERTICAL TAIL

(R4UM27)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 4.000    ELEVON = .0000  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
41	1.011	7.940	40.00	4.013	204.3	1252.	91.98	.2198-01	.9699	3733.	.6450-03	.7401-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
41	.2413-01	.4041-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
41	26.091	9.3030	2368.0	.7020-03	.8479-03	.8479-03	.9000	.1694-04	.2046-04	.1232-01	.9089-01	524.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 VERTICAL TAIL

(R4UM28)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 10.00    ELEVON = .0000  
BDFLAP = .0000    SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
29	.5059	7.900	40.08	9.969	100.5	1249.	92.62	.1117-01	.4879	3727.	.3255-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
29	.1710-01	.5687-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
29	26.091	9.3030	2368.0	.1128-03	.1365-03	.1365-03	.9000	.1930-05	.2334-05	.1391-02	.1024-01	528.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 VERTICAL TAIL

(R4UM28)

## VERTICAL TAIL

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 10.00    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
44	1.020	7.940	39.96	10.01	207.3	1257.	92.34	.2230-01	.9842	3740.	.6518-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
44	.2432-01	.4022-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
44	26.091	9.3030	2368.0	.8102-03	.9780-03	.9780-03	.9000	.1970-04	.2378-04	.1443-01	.1065	524.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL  
OH84B 60-0 VERTICAL TAIL

PAGE 1535

(R4UM28)

VERTICAL TAIL

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 10.00    ELEVON = .0000  
BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
57	1.996	7.980	40.01	10.01	434.1	1303.	94.84	.4519-01	2.014	3810.	.1286-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
57	.3501-01	.2874-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
57	26.091	9.3030	2368.0	.2992-02	.3587-02	.3587-02	.9000	.1047-03	.1256-03	.8220-01	.6085	517.8

DATE 15 JAN 82

OH48 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1536

OH48 60-0 UPPER MID FUSELAGE

(R4UN02)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
117	3.002	7.990	29.96	-4.030	671.8	1325.	96.21	.6938-01	3.100	3842.	.1946-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
117	.4356-01	.2340-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
117	9.7050	.67200	2088.0	.3024-02	.3637-02	.3637-02	.9000	.1317-03	.1584-03	.1034	.0883	539.4
117	9.7170	1.7090	2089.0	.2034-01	.2452-01	.2452-01	.9000	.8658-03	.1068-02	.6876	4.930	548.4
117	9.7990	1.1010	2087.0	.7894-02	.9500-02	.9500-02	.9000	.3439-03	.4138-03	.2694	1.939	541.2
117	10.806	.86700	2103.0	.4209-03	.5060-03	.5060-03	.9000	.1833-04	.2204-04	.1444-01	.2151	537.3
117	10.806	1.6380	2102.0	.3219-02	.3872-02	.3872-02	.9000	.1402-03	.1687-03	.1102	1.070	538.7
117	13.077	.86800	2125.0	.1316-02	.1582-02	.1582-02	.9000	.5733-04	.6889-04	.4528-01	.3494	535.0
117	13.077	1.6840	2122.0	.4870-02	.5857-02	.5857-02	.9000	.2121-03	.2551-03	.1669	1.478	538.6
117	13.107	.28000	2127.0	.2899-02	.3484-02	.3484-02	.9000	.1262-03	.1517-03	.9945-01	.9077	536.8
117	13.107	1.1280	2124.0	.1090-02	.1310-02	.1310-02	.9000	.4748-04	.5705-04	.3749-01	.2724	535.0
117	15.347	.86800	2140.0	.2266-02	.2722-02	.2722-02	.9000	.9872-04	.1186-03	.7807-01	.6008	533.9
117	15.347	1.5840	2139.0	.4090-02	.4915-02	.4915-02	.9000	.1781-03	.2141-03	.1405	.9325	536.1
117	17.549	1.1200	2405.0	.5042-02	.6059-02	.6059-02	.9000	.2196-03	.2639-03	.1734	1.205	535.3
117	17.574	.28000	2408.0	.1828-02	.2196-02	.2196-02	.9000	.7963-04	.9566-04	.6295-01	.5421	534.2
117	17.574	.56000	2407.0	.2482-02	.2962-02	.2962-02	.9000	.1081-03	.1299-03	.8546-01	.6737	534.3
117	17.574	.86800	2406.0	.4647-02	.5584-02	.5584-02	.9000	.2024-03	.2432-03	.1598	1.255	535.2
117	17.574	1.5720	2404.0	.6318-02	.7596-02	.7596-02	.9000	.2752-03	.3304-03	.2180	1.623	532.6
117	19.845	1.5720	2410.0	.6831-02	.8211-02	.8211-02	.9000	.2975-03	.3576-03	.2346	1.571	536.3
117	22.000	.86800	2156.0	.8178-02	.9828-02	.9828-02	.9000	.3562-03	.4281-03	.2811	2.383	535.5
117	22.000	1.5720	2155.0	.6283-02	.7549-02	.7549-02	.9000	.2737-03	.3288-03	.2161	1.575	535.1
117	22.610	.14000-01	2036.0	.5546-02	.6663-02	.6663-02	.9000	.2416-03	.2902-03	.1908	1.536	534.8
117	22.640	.30800	2160.0	.6620-02	.7953-02	.7953-02	.9000	.2884-03	.3464-03	.2280	1.668	534.1

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1537

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN02)

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
117	22.640	.86800	2159.0	.1211-01	.1456-01	.1456-01	.9000	.5276-03	.6343-03	.4155	3.518	537.2
117	22.640	1.2180	2158.0	.1275-01	.1533-01	.1533-01	.9000	.5553-03	.6677-03	.4371	3.940	537.5
117	22.640	1.5820	2157.0	.1517-01	.1820-01	.1820-01	.9000	.6607-03	.7927-03	.5259	3.871	528.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1539

OH84B 60-0 UPPER MID FUSELAGE

(R4UN02)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
130	3.691	8.000	29.96	-4.050	853.4	1351.	97.87	.8742-01	3.916	3980.	.2411-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
130	.4912-01	.2107-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
130	9.7050	.67200	2088.0	.2963-02	.3557-02	.3557-02	.9000	.1455-03	.1747-03	.1176	1.008	542.6
130	9.7170	1.7090	2089.0	.1021-01	.2315-01	.2315-01	.9000	.9436-03	.1137-02	.7494	5.352	556.5
130	9.7990	1.1010	2087.0	.7628-02	.9165-02	.9165-02	.9000	.3747-03	.4502-03	.3017	2.167	545.4
130	10.806	.86700	2103.0	.1688-03	.2026-03	.2026-03	.9000	.8293-05	.9953-05	.6717-02	.9994-01	540.7
130	10.806	1.6380	2102.0	.2985-02	.3584-02	.3584-02	.9000	.1466-03	.1761-03	.1185	1.148	542.7
130	13.077	.86800	2125.0	.1465-02	.1757-02	.1757-02	.9000	.7196-04	.8632-04	.5845-01	.4503	538.4
130	13.077	1.6840	2122.0	.5114-02	.6142-02	.6142-02	.9000	.2512-03	.3017-03	.2028	1.793	543.4
130	13.107	.28000	2127.0	.3143-02	.3771-02	.3771-02	.9000	.1544-03	.1853-03	.1251	1.140	540.1
130	13.107	1.1280	2124.0	.1142-02	.1369-02	.1369-02	.9000	.5607-04	.6726-04	.4555-01	.3304	538.4
130	15.347	.86800	2140.0	.2604-02	.3123-02	.3123-02	.9000	.1279-03	.1534-03	.1040	.7989	537.6
130	15.347	1.5840	2139.0	.4029-02	.4833-02	.4833-02	.9000	.1979-03	.2374-03	.1605	1.064	539.4
130	17.549	1.1200	2405.0	.5860-02	.7031-02	.7031-02	.9000	.2879-03	.3454-03	.2335	1.619	539.5
130	17.574	.28000	2408.0	.1724-02	.2067-02	.2067-02	.9000	.8467-04	.1015-03	.6883-01	.5916	537.8
130	17.574	.56000	2407.0	.2369-02	.2841-02	.2841-02	.9000	.1164-03	.1396-03	.9457-01	.7441	538.0
130	17.574	.86800	2406.0	.5341-02	.6408-02	.6408-02	.9000	.2624-03	.3148-03	.2129	1.668	539.3
130	17.574	1.5720	2404.0	.5615-02	.6734-02	.6734-02	.9000	.2758-03	.3308-03	.2242	1.664	537.9
130	19.845	1.5720	2410.0	.6693-02	.8037-02	.8037-02	.9000	.3290-03	.3948-03	.2666	1.781	540.4
130	22.000	.86800	2156.0	.7902-02	.9481-02	.9481-02	.9000	.3981-03	.4657-03	.3147	2.661	539.9
130	22.000	1.5720	2155.0	.6138-02	.7363-02	.7363-02	.9000	.3015-03	.3617-03	.2447	1.780	539.2
130	22.610	.14000-01	2036.0	.6229-02	.7474-02	.7474-02	.9000	.3060-03	.3671-03	.2480	1.991	540.1
130	22.640	.30800	2160.0	.7405-02	.8881-02	.8881-02	.9000	.3637-03	.4363-03	.2955	2.158	538.2

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1539

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN02)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
130	22.640	.86800	2159.0	.1299-01	.1560-01	.1560-01	.9000	.6383-03	.7663-03	.5161	4.360	542.0
130	22.640	1.2180	2158.0	.1191-01	.1430-01	.1430-01	.9000	.5851-03	.7023-03	.4736	4.261	541.2
130	22.640	1.5820	2157.0	.1448-01	.1734-01	.1734-01	.9000	.7112-03	.8520-03	.5816	4.272	533.0



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1540

OH84B 60-0 UPPER MID FUSELAGE

(R4UN03)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000  
 BOFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
153	1.989	7.980	29.95	-2.020	434.7	1307.	95.13	.4526-01	2.017	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
153	.3505-01	.2877-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
153	9.7050	.67200	2088.0	.1938-02	.2335-02	.2335-02	.9000	.6793-04	.8185-04	.5222-01	.4488	538.0
153	9.7170	1.7090	2089.0	.1747-01	.2110-01	.2110-01	.9000	.6125-03	.7398-03	.4653	3.339	547.0
153	9.7990	1.1010	2087.0	.6562-02	.7910-02	.7910-02	.9000	.2300-03	.2773-03	.1764	1.270	539.9
153	10.806	.86700	2103.0	.3788-03	.4562-03	.4562-03	.9000	.1328-04	.1599-04	.1022-01	.1523	537.0
153	10.806	1.6380	2102.0	.2736-02	.3297-02	.3297-02	.9000	.9592-04	.1156-03	.7372-01	.7162	538.1
153	13.077	.86800	2125.0	.1004-02	.1209-02	.1209-02	.9000	.3520-04	.4238-04	.2717-01	.2097	534.9
153	13.077	1.6840	2122.0	.3742-02	.4508-02	.4508-02	.9000	.1312-03	.1580-03	.1009	.8945	537.7
153	13.107	.28000	2127.0	.4151-02	.5000-02	.5000-02	.9000	.1455-03	.1753-03	.1120	1.022	537.0
153	13.107	1.1280	2124.0	.9945-03	.1197-02	.1197-02	.9000	.3486-04	.4197-04	.2690-01	.1955	535.0
153	15.347	.86800	2140.0	.1810-02	.2179-02	.2179-02	.9000	.6346-04	.7637-04	.4906-01	.3776	533.6
153	15.347	1.5840	2139.0	.4068-02	.4899-02	.4899-02	.9000	.1426-03	.1717-03	.1100	.7299	535.7
153	17.549	1.1200	2405.0	.2850-02	.3430-02	.3430-02	.9000	.9989-04	.1202-03	.7712-01	.5362	534.6
153	17.574	.28000	2408.0	.3727-02	.4487-02	.4487-02	.9000	.1306-03	.1573-03	.1007	.8668	535.6
153	17.574	.56000	2407.0	.3503-02	.4217-02	.4217-02	.9000	.1228-03	.1478-03	.9479-01	.7471	534.7
153	17.574	.86800	2406.0	.2695-02	.3243-02	.3243-02	.9000	.9447-04	.1137-03	.7298-01	.5733	534.2
153	17.574	1.5720	2404.0	.4875-02	.5871-02	.5871-02	.9000	.1709-03	.2058-03	.1316	.9779	536.5
153	19.845	1.5720	2410.0	.8116-02	.9773-02	.9773-02	.9000	.2845-03	.3426-03	.2193	1.469	535.8
153	22.000	.86800	2156.0	.5291-02	.6368-02	.6368-02	.9000	.1855-03	.2232-03	.1433	1.216	533.9
153	22.000	1.5720	2155.0	.3850-02	.4634-02	.4634-02	.9000	.1350-03	.1624-03	.1043	.7607	533.9
153	22.610	.14000-01	2036.0	.5512-02	.6634-02	.6634-02	.9000	.1932-03	.2325-03	.1493	1.202	534.1
153	22.640	.30800	2160.0	.6226-02	.7492-02	.7492-02	.9000	.2182-03	.2626-03	.1687	1.235	533.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1541

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN03)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
153	22.640	.86800	2159.0	.7076-02	.8517-02	.8517-02	.9000	.2481-03	.2986-03	.1916	1.625	534.3
153	22.640	1.2180	2158.0	.8049-02	.9689-02	.9689-02	.9000	.2821-03	.3396-03	.2177	1.965	535.0
153	22.640	1.5820	2157.0	.7909-02	.9497-02	.9497-02	.9000	.2773-03	.3329-03	.2167	1.598	525.0

DATE 15 JAN 82

QH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1542

QH84B 60-0 UPPER MID FUSELAGE

(R4UN03)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDURK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
114	3.016	7.990	29.95	-2.018	673.4	1323.	96.07	.6954-01	3.108	3839.	.1954-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) #.0175
114	.4360-01	.2335-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
114	9.7050	.67200	2088.0	.1455-02	.1750-02	.1750-02	.9000	.6345-04	.7629-04	.4984-01	.4286	537.1
114	9.7170	1.7090	2089.0	.1794-01	.2162-01	.2162-01	.9000	.7821-03	.9425-03	.6078	4.364	545.5
114	9.7990	1.1010	2087.0	.6252-02	.7521-02	.7521-02	.9000	.2726-03	.3279-03	.2136	1.539	539.0
114	10.806	.86700	2103.0	.2659-03	.3197-03	.3197-03	.9000	.1159-04	.1394-04	.9119-02	.1360	536.2
114	10.806	1.6380	2102.0	.2408-02	.2896-02	.2896-02	.9000	.1050-03	.1262-03	.8245-01	.8013	537.3
114	13.077	.86800	2125.0	.1093-02	.1313-02	.1313-02	.9000	.4766-04	.5726-04	.3759-01	.2902	534.0
114	13.077	1.6840	2122.0	.3540-02	.4256-02	.4256-02	.9000	.1543-03	.1855-03	.1213	1.077	536.5
114	13.107	.28000	2127.0	.5476-02	.6585-02	.6585-02	.9000	.2388-03	.2871-03	.1876	1.712	537.1
114	13.107	1.1280	2124.0	.9878-03	.1187-02	.1187-02	.9000	.4307-04	.5174-04	.3396-01	.2469	534.1
114	15.347	.86800	2140.0	.1984-02	.2383-02	.2383-02	.9000	.8649-04	.1039-03	.6833-01	.5262	532.6
114	15.347	1.5840	2139.0	.3667-02	.4406-02	.4406-02	.9000	.1599-03	.1921-03	.1260	.8367	534.7
114	17.549	1.1200	2405.0	.5465-02	.6568-02	.6568-02	.9000	.2383-03	.2863-03	.1878	1.305	534.6
114	17.574	.28000	2408.0	.2643-02	.3176-02	.3176-02	.9000	.1152-03	.1385-03	.9087-01	.7826	534.2
114	17.574	.56000	2407.0	.2360-02	.2835-02	.2835-02	.9000	.1029-03	.1236-03	.8123-01	.6406	533.3
114	17.574	.86800	2406.0	.2994-02	.3597-02	.3597-02	.9000	.1306-03	.1568-03	.1030	.8097	533.5
114	17.574	1.5720	2404.0	.3835-02	.4600-02	.4600-02	.9000	.1672-03	.2005-03	.1330	.9926	527.3
114	19.845	1.5720	2410.0	.6302-02	.7574-02	.7574-02	.9000	.2748-03	.3302-03	.2165	1.451	534.7
114	22.000	.86800	2156.0	.6966-02	.8369-02	.8369-02	.9000	.3037-03	.3649-03	.2396	2.033	533.7
114	22.000	1.5720	2155.0	.6419-02	.7712-02	.7712-02	.9000	.2799-03	.3362-03	.2207	1.609	534.1
114	22.610	.14000-01	2036.0	.6869-02	.8255-02	.8255-02	.9000	.2985-03	.3599-03	.2360	1.900	534.7
114	22.640	.30800	2160.0	.5864-02	.7044-02	.7044-02	.9000	.2557-03	.3071-03	.2019	1.478	532.9

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1543

OH84B 60-0 UPPER MID FUSELAGE

(R4UN031)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
114	22.640	.86800	2159.0	.1028-01	.1236-01	.1236-01	.9000	.4483-03	.5388-03	.3531	2.593	535.1
114	22.640	1.2180	2158.0	.1259-01	.1514-01	.1514-01	.9000	.5489-03	.6600-03	.4316	3.892	536.5
114	22.640	1.5820	2157.0	.1260-01	.1510-01	.1510-01	.9000	.5492-03	.6586-03	.4373	3.223	526.4

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1544

OH84B 60-0 UPPER MID FUSELAGE

(R4UN03)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
127	3.689	8.000	29.96	-2.010	854.0	1352.	97.95	.8748-01	3.919	3881.	.2411-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
127	.4915-01	.2107-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
127	9.7050	.67200	2088.0	.1348-02	.1618-02	.1618-02	.9000	.6622-04	.7950-04	.5362-01	.4599	542.0
127	9.7170	1.7090	2089.0	.1758-01	.2117-01	.2117-01	.9000	.8642-03	.1040-02	.6903	4.939	552.9
127	9.7990	1.1010	2087.0	.6030-02	.7243-02	.7243-02	.9000	.2963-03	.3559-03	.2392	1.719	544.4
127	10.806	.86700	2103.0	.5527-04	.6632-04	.6632-04	.9000	.2716-05	.3260-05	.2203-02	.3278-01	540.6
127	10.806	1.6380	2102.0	.2346-02	.2816-02	.2816-02	.9000	.1153-03	.1384-03	.9328-01	.9043	542.5
127	13.077	.86800	2125.0	.1279-02	.1534-02	.1534-02	.9000	.6285-04	.7538-04	.5111-01	.3937	538.5
127	13.077	1.6840	2122.0	.3424-02	.4110-02	.4110-02	.9000	.1683-03	.2020-03	.1363	1.207	541.5
127	13.107	.28000	2127.0	.5911-02	.7095-02	.7095-02	.9000	.2905-03	.3487-03	.2353	2.142	541.8
127	13.107	1.1280	2124.0	.1143-02	.1371-02	.1371-02	.9000	.5618-04	.6738-04	.4567-01	.3313	538.6
127	15.347	.86800	2140.0	.2105-02	.2524-02	.2524-02	.9000	.1035-03	.1240-03	.8425-01	.6472	537.3
127	15.347	1.5840	2139.0	.3700-02	.4439-02	.4439-02	.9000	.1819-03	.2182-03	.1477	.9783	539.7
127	17.549	1.1200	2405.0	.6927-02	.8312-02	.8312-02	.9000	.3404-03	.4085-03	.2762	1.914	540.4
127	17.574	.28000	2408.0	.2190-02	.2626-02	.2626-02	.9000	.1076-03	.1291-03	.8751-01	.7519	538.5
127	17.574	.56000	2407.0	.2039-02	.2445-02	.2445-02	.9000	.1002-03	.1202-03	.8157-01	.6420	537.7
127	17.574	.86800	2406.0	.3623-02	.4345-02	.4345-02	.9000	.1781-03	.2135-03	.1449	1.136	538.0
127	17.574	1.5720	2404.0	.4747-02	.5695-02	.5695-02	.9000	.2333-03	.2799-03	.1895	1.406	539.5
127	19.845	1.5720	2410.0	.6135-02	.7361-02	.7361-02	.9000	.3015-03	.3617-03	.2447	1.636	540.0
127	22.000	.86800	2156.0	.8173-02	.9806-02	.9806-02	.9000	.4017-03	.4819-03	.3262	2.758	539.7
127	22.000	1.5720	2155.0	.7231-02	.8675-02	.8675-02	.9000	.3554-03	.4263-03	.2886	2.099	539.6
127	22.610	.14000-01	2036.0	.7327-02	.8791-02	.8791-02	.9000	.3601-03	.4320-03	.2922	2.347	540.1
127	22.640	.30800	2160.0	.6407-02	.7684-02	.7684-02	.9000	.3149-03	.3776-03	.2560	1.869	538.5

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1545

OH84B 60-0 UPPER MID FUSELAGE

(R4UN03)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAH/TO	TAH/TO	H(TO) BTU/R FT2SEC	H(TAH) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
127	22.640	.86800	2159.0	.1220-01	.1464-01	.1464-01	.9000	.5995-03	.7196-03	.4857	4.104	541.6
127	22.640	1.2180	2158.0	.1335-01	.1603-01	.1603-01	.9000	.6563-03	.7879-03	.5309	4.772	542.8
127	22.640	1.5820	2157.0	.1388-01	.1663-01	.1663-01	.9000	.6824-03	.8173-03	.5588	4.105	532.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1546

OH84B 60-0 UPPER MID FUSELAGE

(R4UN04)

UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -1.000    ELEVON = .0000  
 BOFLAP = .0000    SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
150	1.973	7.980	29.94	-1.005	435.5	1316.	95.78	.4534-01	2.021	3829.	.1278-02	.7708-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) #.0175
150	.3513-01	.2886-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/R FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
150	9.7050	.67200	2088.0	.1640-02	.1974-02	.1974-02	.9000	.5761-04	.6933-04	.4482-01	.3853	537.6
150	9.7170	1.7090	2089.0	.1642-01	.1980-01	.1980-01	.9000	.5769-03	.6955-03	.4451	3.198	544.1
150	9.7990	1.1010	2087.0	.5811-02	.6995-02	.6995-02	.9000	.2041-03	.2457-03	.1586	1.143	538.5
150	10.806	.86700	2103.0	.1164-03	.1401-03	.1401-03	.9000	.4090-05	.4922-05	.3185-02	.4747-01	537.0
150	10.806	1.6380	2102.0	.2454-02	.2953-02	.2953-02	.9000	.8521-04	.1037-03	.6709-01	.6521	537.4
150	13.077	.86800	2125.0	.1090-02	.1311-02	.1311-02	.9000	.3830-04	.4606-04	.2988-01	.2306	535.3
150	13.077	1.6840	2122.0	.3600-02	.4332-02	.4332-02	.9000	.1265-03	.1522-03	.9840-01	.8728	537.5
150	13.107	.28000	2127.0	.4928-02	.5932-02	.5932-02	.9000	.1731-03	.2094-03	.1347	1.228	537.9
150	13.107	1.1280	2124.0	.9097-03	.1094-02	.1094-02	.9000	.3196-04	.3844-04	.2494-01	.1812	535.2
150	15.347	.86800	2140.0	.1938-02	.2330-02	.2330-02	.9000	.6808-04	.8186-04	.5321-01	.4095	534.1
150	15.347	1.5840	2139.0	.3989-02	.4799-02	.4798-02	.9000	.1401-03	.1686-03	.1093	.7257	535.6
150	17.549	1.1200	2405.0	.2869-02	.3451-02	.3451-02	.9000	.1008-03	.1212-03	.7870-01	.5471	534.8
150	17.574	.28000	2408.0	.4630-02	.5570-02	.5570-02	.9000	.1625-03	.1957-03	.1268	1.091	536.1
150	17.574	.56000	2407.0	.4033-02	.4852-02	.4852-02	.9000	.1417-03	.1704-03	.1105	.8706	535.7
150	17.574	.86800	2406.0	.2653-02	.3190-02	.3190-02	.9000	.9318-04	.1121-03	.7279-01	.5718	534.5
150	17.574	1.5720	2404.0	.4505-02	.5421-02	.5421-02	.9000	.1583-03	.1904-03	.1233	.9162	536.5
150	19.845	1.5720	2410.0	.7274-02	.8750-02	.8750-02	.9000	.2555-03	.3074-03	.1993	1.335	535.7
150	22.000	.86800	2156.0	.4903-02	.5895-02	.5895-02	.9000	.1722-03	.2071-03	.1346	1.141	534.2
150	22.000	1.5720	2155.0	.2606-02	.3133-02	.3133-02	.9000	.9154-04	.1101-03	.7158-01	.5222	533.7
150	22.610	.14000-01	2036.0	.4166-02	.5010-02	.5010-02	.9000	.1463-03	.1760-03	.1142	.9195	535.1
150	22.640	.30800	2160.0	.4146-02	.4986-02	.4986-02	.9000	.1457-03	.1751-03	.1138	.8328	534.2

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN04)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
150	22.640	.86800	2159.0	.5356-02	.6440-02	.6440-02	.9000	.1881-03	.2262-03	.1471	1.247	534.0
150	22.640	1.2180	2158.0	.3641-02	.4378-02	.4378-02	.9000	.1279-03	.1538-03	.1000	.9033	533.7
150	22.640	1.5820	2157.0	.3862-02	.4632-02	.4632-02	.9000	.1357-03	.1627-03	.1074	.7926	524.0



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1548

OH84B 60-0 UPPER MID FUSELAGE

(R4UN04)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDSRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
111	2.999	7.990	29.94	- .9974	671.3	1325.	96.21	.6932-01	3.098	3842.	.1945-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
111	.4354-01	.2341-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
111	9.7050	.67200	2088.0	.1757-02	.2113-02	.2113-02	.9000	.7651-04	.9200-04	.6020-01	.5174	537.9
111	9.7170	1.7090	2089.0	.1630-01	.1963-01	.1963-01	.9000	.7095-03	.8549-03	.5526	3.968	545.8
111	9.7990	1.1010	2087.0	.5149-02	.6194-02	.6194-02	.9000	.2242-03	.2697-03	.1762	1.270	538.8
111	10.806	1.6380	2102.0	.2091-02	.2514-02	.2514-02	.9000	.9104-04	.1095-03	.7166-01	.6964	537.6
111	13.077	.86800	2125.0	.1251-02	.1504-02	.1504-02	.9000	.5449-04	.6547-04	.4305-01	.3323	534.7
111	13.077	1.6840	2122.0	.3295-02	.3962-02	.3962-02	.9000	.1435-03	.1725-03	.1129	1.002	537.5
111	13.107	.28000	2127.0	.5720-02	.6878-02	.6878-02	.9000	.2490-03	.2995-03	.1959	1.787	538.0
111	13.107	1.1280	2124.0	.9354-03	.1124-02	.1124-02	.9000	.4073-04	.4893-04	.3218-01	.2339	534.6
111	15.347	.86800	2140.0	.1961-02	.2355-02	.2355-02	.9000	.8539-04	.1025-03	.6758-01	.5203	533.2
111	15.347	1.5840	2139.0	.3591-02	.4315-02	.4315-02	.9000	.1564-03	.1879-03	.1234	.8198	535.2
111	17.549	1.1200	2405.0	.4121-02	.4952-02	.4952-02	.9000	.1794-03	.2156-03	.1416	.9841	535.4
111	17.574	.28000	2408.0	.3171-02	.3810-02	.3810-02	.9000	.1331-03	.1659-03	.1090	.9379	535.3
111	17.574	.56000	2407.0	.2393-02	.2874-02	.2874-02	.9000	.1042-03	.1252-03	.8236-01	.6493	534.2
111	17.574	.86800	2406.0	.2655-02	.3189-02	.3189-02	.9000	.1156-03	.1389-03	.9142-01	.7184	533.8
111	17.574	1.5720	2404.0	.3654-02	.4393-02	.4383-02	.9000	.1591-03	.1909-03	.1267	.9452	528.4
111	19.845	1.5720	2410.0	.6604-02	.7936-02	.7936-02	.9000	.2876-03	.3455-03	.2270	1.521	535.3
111	22.000	.86800	2156.0	.6755-02	.8116-02	.8116-02	.9000	.2941-03	.3534-03	.2324	1.970	534.7
111	22.000	1.5720	2155.0	.3873-02	.4652-02	.4652-02	.9000	.1686-03	.2026-03	.1333	.9722	534.2
111	22.610	.14000-01	2036.0	.5644-02	.6781-02	.6781-02	.9000	.2457-03	.2952-03	.1941	1.563	534.7
111	22.640	.30800	2160.0	.5757-02	.6915-02	.6915-02	.9000	.2507-03	.3011-03	.1983	1.452	533.6
111	22.640	.86800	2159.0	.1034-01	.1243-01	.1243-01	.9000	.4504-03	.5413-03	.3554	3.012	535.5

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN04)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
111	22.640	1.2180	2158.0	.7533-02	.9050-02	.9050-02	.9000	.3280-03	.3940-03	.2592	2.340	534.4
111	22.640	1.5820	2157.0	.7303-02	.8753-02	.8753-02	.9000	.3180-03	.3811-03	.2542	1.874	525.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1550

OH84B 60-0 UPPER MID FUSELAGE

(R4UN04)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = -1.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
123	3.686	8.000	29.95	- .9857	853.2	1352.	97.95	.8740-01	3.915	3881.	.2408-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
123	.4912-01	.2108-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
123	9.7050	.67200	2088.0	.1985-02	.2382-02	.2382-02	.9000	.9750-04	.1170-03	.7901-01	.6779	541.3
123	9.7170	1.7090	2089.0	.1615-01	.1942-01	.1942-01	.9000	.7931-03	.9541-03	.6357	4.554	550.2
123	9.7990	1.1010	2087.0	.4891-02	.5871-02	.5971-02	.9000	.2403-03	.2884-03	.1945	1.399	542.0
123	10.806	1.6380	2102.0	.2044-02	.2453-02	.2453-02	.9000	.1004-03	.1205-03	.8146-01	.7904	540.5
123	13.077	.86800	2125.0	.1509-02	.1809-02	.1809-02	.9000	.7412-04	.8887-04	.6036-01	.4653	537.3
123	13.077	1.6840	2122.0	.3319-02	.3982-02	.3982-02	.9000	.1631-03	.1956-03	.1324	1.173	539.8
123	13.107	.28000	2127.0	.6070-02	.7284-02	.7284-02	.9000	.2982-03	.3578-03	.2418	2.203	540.6
123	13.107	1.1280	2124.0	.1096-02	.1315-02	.1315-02	.9000	.5386-04	.6458-04	.4387-01	.3184	537.2
123	15.347	.86800	2140.0	.1983-02	.2377-02	.2377-02	.9000	.9741-04	.1168-03	.7949-01	.6111	535.7
123	15.347	1.5840	2139.0	.3688-02	.4423-02	.4423-02	.9000	.1812-03	.2173-03	.1474	.9776	538.0
123	17.549	1.1200	2405.0	.5186-02	.6219-02	.6219-02	.9000	.2548-03	.3055-03	.2074	1.439	537.8
123	17.574	.28000	2408.0	.3045-02	.3651-02	.3651-02	.9000	.1496-03	.1793-03	.1218	1.047	537.5
123	17.574	.56000	2407.0	.2292-02	.2747-02	.2747-02	.9000	.1126-03	.1350-03	.9178-01	.7227	536.4
123	17.574	.86800	2406.0	.2865-02	.3434-02	.3434-02	.9000	.1407-03	.1687-03	.1147	.9005	536.3
123	17.574	1.5720	2404.0	.6076-02	.7283-02	.7283-02	.9000	.2984-03	.3578-03	.2433	1.808	536.4
123	19.845	1.5720	2410.0	.6240-02	.7482-02	.7482-02	.9000	.3065-03	.3676-03	.2495	1.670	537.6
123	22.000	.86800	2156.0	.5950-02	.7133-02	.7133-02	.9000	.2923-03	.3504-03	.2384	2.020	536.2
123	22.000	1.5720	2155.0	.5556-02	.6661-02	.6661-02	.9000	.2729-03	.3272-03	.2223	1.619	537.0
123	22.610	.14000-01	2036.0	.7179-02	.8611-02	.8611-02	.9000	.3527-03	.4230-03	.2868	2.305	538.5
123	22.640	.30800	2160.0	.7301-02	.8753-02	.8753-02	.9000	.3586-03	.4299-03	.2923	2.136	536.7
123	22.640	.86800	2159.0	.1139-01	.1366-01	.1366-01	.9000	.5594-03	.6711-03	.4545	3.845	539.2

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN04)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
123	22.640	1.2180	2158.0	.1022-01	.1226-01	.1226-01	.9000	.5020-03	.6022-03	.4078	3.673	539.3
123	22.640	1.5820	2157.0	.1009-01	.1207-01	.1207-01	.9000	.4955-03	.5930-03	.4073	2.997	529.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN06)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MJ LB-SEC /FT2
11	.5125	7.900	29.95	.4910-02	100.6	1239.	91.88	.1118-01	.4884	3712.	.3284-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
11	.1709-01	.5657-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(101) BTU/R FT2SEC	H(1AW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
11	9.7050	.67200	2088.0	.1933-02	.2349-02	.2349-02	.9000	.3304-04	.4015-04	.2310-01	.1984	539.5
11	9.7170	1.7090	2089.0	.1493-01	.1817-01	.1817-01	.9000	.2552-03	.3105-03	.1775	1.276	543.2
11	9.7990	1.1010	2087.0	.5961-02	.7247-02	.7247-02	.9000	.1019-03	.1239-03	.7110-01	.5118	540.7
11	10.806	.86700	2103.0	.3872-03	.4705-03	.4705-03	.9000	.6616-05	.8040-05	.4628-02	.6891-01	539.1
11	10.806	1.6380	2102.0	.2711-02	.3295-02	.3295-02	.9000	.4633-04	.5631-04	.3237-01	.3142	539.8
11	13.077	.86800	2125.0	.7940-03	.9647-03	.9647-03	.9000	.1357-04	.1649-04	.9499-02	.7317-01	538.6
11	13.077	1.6840	2122.0	.3698-02	.4495-02	.4495-02	.9000	.6320-04	.7682-04	.4415-01	.3911	540.1
11	13.107	.28000	2127.0	.2154-02	.2618-02	.2618-02	.9000	.3682-04	.4474-04	.2575-01	.2347	539.2
11	13.107	1.1280	2124.0	.1084-02	.1317-02	.1317-02	.9000	.1852-04	.2251-04	.1296-01	.9400-01	538.9
11	15.347	.86800	2140.0	.1316-02	.1598-02	.1598-02	.9000	.2248-04	.2731-04	.1576-01	.1210	537.9
11	15.347	1.5840	2139.0	.4711-02	.5725-02	.5725-02	.9000	.8051-04	.9783-04	.5633-01	.3733	539.0
11	17.549	1.1200	2405.0	.2002-02	.2432-02	.2432-02	.9000	.3421-04	.4156-04	.2397-01	.1663	538.1
11	17.574	.28000	2408.0	.3456-02	.4200-02	.4200-02	.9000	.5907-04	.7177-04	.4134-01	.3552	538.7
11	17.574	.56000	2407.0	.2918-02	.3545-02	.3545-02	.9000	.4986-04	.6058-04	.3492-01	.2748	538.3
11	17.574	.86800	2406.0	.1852-02	.2249-02	.2249-02	.9000	.3164-04	.3844-04	.2218-01	.1739	537.7
11	17.574	1.5720	2404.0	.4827-02	.5836-02	.5836-02	.9000	.8249-04	.1002-03	.5772-01	.4283	539.0
11	19.845	1.5720	2410.0	.3722-02	.4522-02	.4522-02	.9000	.6360-04	.7727-04	.4453-01	.2978	538.6
11	22.000	.86800	2156.0	.1540-02	.1870-02	.1870-02	.9000	.2632-04	.3196-04	.1845-01	.1562	537.6
11	22.000	1.5720	2155.0	.1449-02	.1760-02	.1760-02	.9000	.2476-04	.3008-04	.1736-01	.1264	537.6
11	22.610	.14000-01	2036.0	.4583-02	.5567-02	.5567-02	.9000	.7831-04	.9514-04	.5483-01	.4407	538.5
11	22.640	.30800	2160.0	.3886-02	.4721-02	.4721-02	.9000	.6641-04	.8067-04	.4652-01	.3397	538.1

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1553

OH84B 60-0 UPPER MID FUSELAGE

(R4UN06)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
11	22.640	.86800	2159.0	.2007-02	.2438-02	.2438-02	.9000	.3431-04	.4167-04	.2405-01	.2036	537.7
11	22.640	1.2180	2158.0	.8510-03	.1034-02	.1034-02	.9000	.1454-04	.1766-04	.1020-01	.9193-01	537.4
11	22.640	1.5820	2157.0	.1188-02	.1443-02	.1443-02	.9000	.2030-04	.2465-04	.1424-01	.1043	537.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1554

OH84B 60-0 UPPER MID FUSELAGE

(R4UN06)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
48	1.981	7.980	29.96	.2453-02	434.4	1310.	95.35	.4522-01	2.016	3820.	.1280-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
48	.3505-01	.2882-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
48	9.7050	.67200	2088.0	.2774-02	.3340-02	.3340-02	.9000	.9723-04	.1171-03	.7507-01	.6454	537.6
48	9.7170	1.7090	2089.0	.1551-01	.1870-01	.1870-01	.9000	.5435-03	.6554-03	.4170	2.999	542.4
48	9.7990	1.1010	2087.0	.4466-02	.5378-02	.5378-02	.9000	.1556-03	.1885-03	.1209	.8716	537.5
48	10.806	.86700	2103.0	.2730-03	.3287-03	.3287-03	.9000	.9570-05	.1152-04	.7401-02	.1104	536.3
48	10.806	1.6380	2102.0	.2243-02	.2700-02	.2700-02	.9000	.7863-04	.9466-04	.6083-01	.5915	536.1
48	13.077	.86800	2125.0	.1212-02	.1459-02	.1459-02	.9000	.4250-04	.5113-04	.3295-01	.2544	534.3
48	13.077	1.6840	2122.0	.3591-02	.4323-02	.4323-02	.9000	.1259-03	.1515-03	.9739-01	.8645	536.0
48	13.107	.28000	2127.0	.5579-02	.6718-02	.6718-02	.9000	.1956-03	.2355-03	.1511	1.379	537.1
48	13.107	1.1280	2124.0	.8402-03	.1011-02	.1011-02	.9000	.2945-04	.3544-04	.2285-01	.1661	534.0
48	15.347	.86800	2140.0	.2548-02	.3064-02	.3064-02	.9000	.8931-04	.1074-03	.6936-01	.5340	533.0
48	15.347	1.5840	2139.0	.3735-02	.4494-02	.4494-02	.9000	.1309-03	.1575-03	.1016	.6751	533.8
48	17.549	1.1200	2405.0	.2519-02	.3030-02	.3030-02	.9000	.8928-04	.1062-03	.6853-01	.4767	533.4
48	17.574	.28000	2408.0	.5327-02	.6411-02	.6411-02	.9000	.1867-03	.2247-03	.1446	1.245	535.2
48	17.574	.56000	2407.0	.5130-02	.6173-02	.6173-02	.9000	.1798-03	.2164-03	.1394	1.099	534.4
48	17.574	.86800	2406.0	.3073-02	.3697-02	.3697-02	.9000	.1077-03	.1296-03	.8363-01	.6573	533.3
48	17.574	1.5720	2404.0	.4419-02	.5316-02	.5316-02	.9000	.1549-03	.1854-03	.1201	.8936	534.1
48	19.845	1.5720	2410.0	.5536-02	.6660-02	.6660-02	.9000	.1941-03	.2335-03	.1506	1.010	533.5
48	22.000	.86800	2156.0	.2120-02	.2548-02	.2548-02	.9000	.7430-04	.8933-04	.5783-01	.4912	531.3
48	22.000	1.5720	2155.0	.2139-02	.2571-02	.2571-02	.9000	.7497-04	.9013-04	.5835-01	.4262	531.3
48	22.610	.14000-01	2036.0	.2833-02	.3407-02	.3407-02	.9000	.9931-04	.1194-03	.7718-01	.6222	532.4
48	22.640	.30800	2160.0	.2536-02	.3049-02	.3049-02	.9000	.8890-04	.1069-03	.6919-01	.5070	531.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1555

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN06)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
48	22.640	.86800	2159.0	.3067-02	.3688-02	.3688-02	.9000	.1075-03	.1293-03	.8369-01	.7109	531.2
48	22.640	1.2180	2158.0	.3357-02	.4036-02	.4036-02	.9000	.1177-03	.1415-03	.9160-01	.8282	531.3
48	22.640	1.5820	2157.0	.4439-02	.5337-02	.5337-02	.9000	.1556-03	.1871-03	.1211	.8902	531.4



## OH84B 60-0 UPPER MID FUSELAGE

(R4UN06)

## UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
77	3.028	7.990	29.98	-1.2446-02	670.1	1315.	95.49	.6920-01	3.092	3827.	.1956-02	.7684-07

RUN NUMBER	HREF DTU/ R FT2SEC	STN NO REF(R) *.0175
77	.4345-01	.2332-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
77	9.7050	.67200	2088.0	.3378-02	.4069-02	.4069-02	.9000	.1468-03	.1768-03	.1137	.9760	540.1
77	9.7170	1.7090	2089.0	.1511-01	.1822-01	.1822-01	.9000	.6563-03	.7917-03	.5046	3.623	545.9
77	9.7990	1.1010	2087.0	.3789-02	.4562-02	.4562-02	.9000	.1646-03	.1982-03	.1276	.9192	539.5
77	10.806	.86700	2103.0	.2688-03	.3236-03	.3236-03	.9000	.1168-04	.1406-04	.9070-02	.1351	538.0
77	10.806	1.6380	2102.0	.1829-02	.2201-02	.2201-02	.9000	.7944-04	.9563-04	.6169-01	.5994	538.1
77	13.077	.86800	2125.0	.1526-02	.1836-02	.1836-02	.9000	.6629-04	.7976-04	.5161-01	.3981	536.2
77	13.077	1.6840	2122.0	.3301-02	.3974-02	.3974-02	.9000	.1434-03	.1727-03	.1113	.9870	538.5
77	13.107	.28000	2127.0	.6578-02	.7921-02	.7921-02	.9000	.2858-03	.3441-03	.2216	2.020	539.3
77	13.107	1.1280	2124.0	.8823-03	.1061-02	.1061-02	.9000	.3833-04	.4612-04	.2986-01	.2169	535.7
77	15.347	.86800	2140.0	.2581-02	.3104-02	.3104-02	.9000	.1121-03	.1349-03	.8742-01	.6723	535.0
77	15.347	1.5840	2139.0	.3423-02	.4119-02	.4119-02	.9000	.1487-03	.1790-03	.1159	.7682	536.4
77	17.549	1.1200	2405.0	.3183-02	.3830-02	.3830-02	.9000	.1393-03	.1664-03	.1077	.7482	535.9
77	17.574	.28000	2408.0	.4247-02	.5111-02	.5111-02	.9000	.1845-03	.2221-03	.1435	1.234	536.8
77	17.574	.56000	2407.0	.4838-02	.5821-02	.5821-02	.9000	.2102-03	.2529-03	.1636	1.288	536.3
77	17.574	.86800	2406.0	.2749-02	.3307-02	.3307-02	.9000	.1194-03	.1437-03	.9310-01	.7310	535.2
77	17.574	1.5720	2404.0	.3409-02	.4101-02	.4101-02	.9000	.1481-03	.1782-03	.1153	.8567	536.2
77	19.845	1.5720	2410.0	.7065-02	.8501-02	.8501-02	.9000	.3069-03	.3693-03	.2389	1.599	536.5
77	22.000	.86800	2156.0	.5329-02	.6409-02	.6409-02	.9000	.2315-03	.2784-03	.1805	1.531	534.8
77	22.000	1.5720	2155.0	.1293-01	.1550-01	.1550-01	.9000	.5617-03	.6735-03	.4451	3.266	522.4
77	22.610	.14000-01	2036.0	.3890-02	.4679-02	.4679-02	.9000	.1690-03	.2033-03	.1318	1.062	534.6
77	22.640	.30800	2150.0	.3801-02	.4571-02	.4571-02	.9000	.1651-03	.1986-03	.1289	.9436	533.9

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OH849 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH848 60-0 UPPER MID FUSELAGE

(R4UN06)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
77	22.640	.86800	2159.0	.6824-02	.8209-02	.8209-02	.9000	.2965-03	.3566-03	.2311	1.559	535.3
77	22.640	1.2180	2158.0	.4637-02	.5577-02	.5577-02	.9000	.2015-03	.2423-03	.1572	1.419	534.4
77	22.640	1.5820	2157.0	.3892-02	.4670-02	.4670-02	.9000	.1691-03	.2029-03	.1336	.9853	524.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1558

OH84B 60-0 UPPER MID FUSELAGE

(R4UN06)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 30.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
120	3.698	8.000	29.97	.7342-02	853.1	1349.	97.73	.8738-01	3.915	3877.	.2413-02	.7864-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
120	.4910-01	.2105-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
120	9.7050	.67200	2088.0	.4713-02	.5661-02	.5661-02	.9000	.2314-03	.2779-03	.1865	1.599	542.8
120	9.7170	1.7090	2089.0	.1497-01	.1801-01	.1801-01	.9000	.7350-03	.8842-03	.5873	4.209	549.6
120	9.7990	1.1010	2087.0	.3377-02	.4055-02	.4055-02	.9000	.1658-03	.1991-03	.1338	.9626	541.9
120	10.806	.86700	2103.0	.4646-03	.5578-03	.5578-03	.9000	.2281-04	.2739-04	.1842-01	.2740	541.2
120	10.806	1.6380	2102.0	.1593-02	.1912-02	.1912-02	.9000	.7822-04	.9389-04	.6321-01	.6133	540.6
120	13.077	.86800	2125.0	.1862-02	.2234-02	.2234-02	.9000	.9144-04	.1097-03	.7407-01	.5706	538.6
120	13.077	1.6840	2122.0	.3201-02	.3842-02	.3842-02	.9000	.1572-03	.1887-03	.1270	1.125	540.6
120	13.107	.28000	2127.0	.7219-02	.8569-02	.8569-02	.9000	.3544-03	.4256-03	.2857	2.600	542.5
120	13.107	1.1280	2124.0	.9636-03	.1156-02	.1156-02	.9000	.4731-04	.5675-04	.3836-01	.2783	537.9
120	15.347	.86800	2140.0	.2853-02	.3434-02	.3434-02	.9000	.1406-03	.1686-03	.1141	.8761	537.4
120	15.347	1.5840	2139.0	.3443-02	.4130-02	.4130-02	.9000	.1690-03	.2028-03	.1370	.9081	538.4
120	17.549	1.1200	2405.0	.3429-02	.4112-02	.4112-02	.9000	.1683-03	.2019-03	.1364	.9463	538.4
120	17.574	.28000	2408.0	.4868-02	.5843-02	.5843-02	.9000	.2390-03	.2869-03	.1933	1.660	540.0
120	17.574	.56000	2407.0	.5392-02	.6470-02	.6470-02	.9000	.2647-03	.3177-03	.2143	1.685	539.4
120	17.574	.86800	2406.0	.3199-02	.3839-02	.3838-02	.9000	.1571-03	.1884-03	.1274	.9988	537.8
120	17.574	1.5720	2404.0	.3578-02	.4290-02	.4290-02	.9000	.1757-03	.2107-03	.1426	1.060	536.6
120	19.845	1.5720	2410.0	.7825-02	.9388-02	.9388-02	.9000	.3842-03	.4610-03	.3112	2.081	538.7
120	22.000	.86800	2156.0	.3572-02	.4283-02	.4283-02	.9000	.1754-03	.2103-03	.1424	1.207	536.4
120	22.000	1.5720	2155.0	.3366-02	.4062-02	.4062-02	.9000	.1663-03	.1994-03	.1349	.9822	537.4
120	22.610	.14000-01	2036.0	.4858-02	.5828-02	.5828-02	.9000	.2385-03	.2862-03	.1932	1.552	538.8
120	22.640	.30800	2160.0	.4328-02	.5190-02	.5190-02	.9000	.2125-03	.2548-03	.1725	1.261	536.8

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN06)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
120	22.640	.86800	2159.0	.6855-02	.8222-02	.8222-02	.9000	.3366-03	.4037-03	.2730	2.311	537.7
120	22.640	1.2180	2158.0	.6648-02	.7974-02	.7974-02	.9000	.3264-03	.3915-03	.2647	2.395	537.9
120	22.640	1.5820	2157.0	.6664-02	.7975-02	.7975-02	.9000	.3272-03	.3916-03	.2683	1.975	528.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1560

OH84B 60-0 UPPER MID FUSELAGE

(R4UN08)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
51	2.021	7.980	29.94	1.035	434.5	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
51	.3498-01	.2859-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
51	9.7050	.67200	2088.0	.3146-02	.3794-02	.3794-02	.9000	.1100-03	.1327-03	.8320-01	.7156	536.5
51	9.7170	1.7090	2089.0	.1392-01	.1681-01	.1681-01	.9000	.4868-03	.5979-03	.3662	2.636	540.5
51	9.7990	1.1010	2087.0	.3422-02	.4126-02	.4126-02	.9000	.1197-03	.1443-03	.9061-01	.6540	535.6
51	10.806	.86700	2103.0	.6866-03	.8280-03	.8280-03	.9000	.2402-04	.2896-04	.1819-01	.2713	535.5
51	10.806	1.6380	2102.0	.1785-02	.2152-02	.2152-02	.9000	.6245-04	.7529-04	.4734-01	.4608	534.6
51	13.077	.86800	2125.0	.1549-02	.1866-02	.1866-02	.9000	.5418-04	.6528-04	.4119-01	.3183	532.4
51	13.077	1.6840	2122.0	.3385-02	.4081-02	.4081-02	.9000	.1184-03	.1427-03	.8978-01	.7976	534.4
51	13.107	.28000	2127.0	.6039-02	.7282-02	.7282-02	.9000	.2112-03	.2547-03	.1600	1.461	535.3
51	13.107	1.1280	2124.0	.9097-03	.1095-02	.1095-02	.9000	.3182-04	.3833-04	.2420-01	.1761	532.1
51	15.347	.86800	2140.0	.3551-02	.4277-02	.4277-02	.9000	.1242-03	.1496-03	.9455-01	.7285	531.4
51	15.347	1.5840	2139.0	.3747-02	.4514-02	.4514-02	.9000	.1310-03	.1579-03	.9967-01	.6629	532.1
51	17.549	1.1200	2405.0	.3018-02	.3635-02	.3635-02	.9000	.1056-03	.1271-03	.8036-01	.5596	531.3
51	17.574	.28000	2408.0	.6603-02	.7958-02	.7958-02	.9000	.2310-03	.2784-03	.1754	1.511	533.3
51	17.574	.56000	2407.0	.6787-02	.8177-02	.8177-02	.9000	.2374-03	.2860-03	.1805	1.424	532.5
51	17.574	.86800	2406.0	.3776-02	.4549-02	.4549-02	.9000	.1321-03	.1591-03	.1005	.7909	531.5
51	17.574	1.5720	2404.0	.4707-02	.5671-02	.5671-02	.9000	.1646-03	.1984-03	.1252	.9321	532.3
51	19.845	1.5720	2410.0	.3748-02	.4514-02	.4514-02	.9000	.1311-03	.1579-03	.9976-01	.6696	531.7
51	22.000	.86800	2156.0	.1716-02	.2066-02	.2066-02	.9000	.6002-04	.7226-04	.4583-01	.3897	529.2
51	22.000	1.5720	2155.0	.1417-01	.1704-01	.1704-01	.9000	.4958-03	.5962-03	.3806	2.789	525.0
51	22.610	.14000-01	2036.0	.2933-02	.3532-02	.3532-02	.9000	.1026-03	.1235-03	.7819-01	.6309	530.5
51	22.640	.30800	2160.0	.2686-02	.3233-02	.3233-02	.9000	.9394-04	.1131-03	.7169-01	.5257	529.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1561

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN08)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
51	22.640	.86800	2159.0	.1441-02	.1735-02	.1735-02	.9000	.5042-04	.6069-04	.3852-01	.3276	528.7
51	22.640	1.2180	2158.0	.1137-02	.1369-02	.1369-02	.9000	.3977-04	.4787-04	.3039-01	.2752	528.5
51	22.640	1.5820	2157.0	.1266-02	.1523-02	.1523-02	.9000	.4427-04	.5328-04	.3383-01	.2490	528.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1562

OH84B 60-0 UPPER MID FUSELAGE

(R4UN10)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
55	2.000	7.980	29.95	2.036	435.1	1303.	94.84	.4530-01	2.019	3810.	.1289-02	.7631-00

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
55	.3505-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
55	9.7050	.67200	2088.0	.3104-02	.3739-02	.3739-02	.9000	.1088-03	.1310-03	.8350-01	.7186	535.3
55	9.7170	1.7090	2099.0	.1258-01	.1516-01	.1516-01	.9000	.4408-03	.5314-03	.3369	2.428	538.4
55	9.7990	1.1010	2097.0	.3043-02	.3663-02	.3663-02	.9000	.1066-03	.1284-03	.8198-01	.5922	533.9
55	10.806	.86700	2103.0	.5204-03	.6265-03	.6265-03	.9000	.1824-04	.2196-04	.1402-01	.2094	533.8
55	10.806	1.6380	2102.0	.1618-02	.1947-02	.1947-02	.9000	.5669-04	.6825-04	.4364-01	.4250	533.0
55	13.077	.86800	2125.0	.1797-02	.2162-02	.2162-02	.9000	.6298-04	.7579-04	.4857-01	.3755	531.6
55	13.077	1.6840	2122.0	.3169-02	.3815-02	.3815-02	.9000	.1111-03	.1337-03	.8548-01	.7599	533.2
55	13.107	.28000	2127.0	.6167-02	.7426-02	.7426-02	.9000	.2162-03	.2603-03	.1661	1.517	534.4
55	13.107	1.1280	2124.0	.8526-03	.1026-02	.1026-02	.9000	.2988-04	.3595-04	.2306-01	.1679	531.1
55	15.347	.86800	2140.0	.4525-02	.5444-02	.5444-02	.9000	.1586-03	.1908-03	.1223	.9428	531.3
55	15.347	1.5840	2139.0	.3431-02	.4128-02	.4128-02	.9000	.1293-03	.1447-03	.9275-01	.6171	531.4
55	17.549	1.1200	2405.0	.3172-02	.3816-02	.3816-02	.9000	.1112-03	.1337-03	.8582-01	.5978	530.7
55	17.574	.28000	2408.0	.7437-02	.8953-02	.8953-02	.9000	.2607-03	.3138-03	.2006	1.729	533.0
55	17.574	.56000	2407.0	.7234-02	.8705-02	.8705-02	.9000	.2535-03	.3051-03	.1954	1.542	532.1
55	17.574	.86800	2406.0	.4017-02	.4832-02	.4832-02	.9000	.1408-03	.1694-03	.1086	.8549	531.0
55	17.574	1.5720	2404.0	.4196-02	.5049-02	.5049-02	.9000	.1471-03	.1769-03	.1134	.8447	531.5
55	19.845	1.5720	2410.0	.2497-02	.3004-02	.3004-02	.9000	.8752-04	.1053-03	.6758-01	.4539	530.5
55	22.000	.86800	2156.0	.1399-02	.1682-02	.1682-02	.9000	.4902-04	.5894-04	.3795-01	.3228	528.4
55	22.610	.14000-01	2036.0	.4125-02	.4962-02	.4962-02	.9000	.1446-03	.1739-03	.1117	.9012	530.3
55	22.640	.30800	2160.0	.3411-02	.4102-02	.4102-02	.9000	.1196-03	.1438-03	.9248-01	.6784	529.1
55	22.640	.86800	2159.0	.1544-02	.1856-02	.1856-02	.9000	.5412-04	.6506-04	.4191-01	.3565	528.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1563

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN10)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
55	22.640	1.2180	2158.0	.1003-02	.1206-02	.1206-02	.9000	.3517-04	.4228-04	.2724-01	.2467	528.1
55	22.640	1.5820	2157.0	.1144-02	.1372-02	.1372-02	.9000	.4011-04	.4809-04	.3145-01	.2327	518.5



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1564

OH84B 60-0 UPPER MID FUSELAGE

(R4UN11)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -4.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
165	2.002	7.980	34.98	-4.052	435.0	1302.	94.76	.4529-01	2.019	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
165	.3504-01	.2869-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
165	9.7050	.67200	2088.0	.2279-02	.2750-02	.2750-02	.9000	.7988-04	.9638-04	.6072-01	.5210	541.5
165	9.7170	1.7090	2089.0	.1749-01	.2118-01	.2118-01	.9000	.6129-03	.7422-03	.4580	3.274	554.4
165	9.7990	1.1010	2087.0	.6432-02	.7767-02	.7767-02	.9000	.2254-03	.2722-03	.1707	1.226	544.5
165	10.806	.86700	2103.0	.3215-03	.3877-03	.3877-03	.9000	.1127-04	.1359-04	.8589-02	.1279	539.4
165	10.806	1.6380	2102.0	.2625-02	.3168-02	.3168-02	.9000	.9199-04	.1110-03	.6987-01	.6775	542.1
165	13.077	.86800	2125.0	.1331-02	.1604-02	.1604-02	.9000	.4663-04	.5620-04	.3564-01	.2748	537.2
165	13.077	1.6840	2122.0	.5621-02	.6783-02	.6783-02	.9000	.1970-03	.2377-03	.1497	1.325	541.8
165	13.107	.28000	2127.0	.5953-02	.7183-02	.7183-02	.9000	.2086-03	.2517-03	.1586	1.445	541.2
165	13.107	1.1280	2124.0	.1209-02	.1457-02	.1457-02	.9000	.4235-04	.5104-04	.3236-01	.2348	537.5
165	15.347	.86800	2140.0	.3542-02	.4268-02	.4268-02	.9000	.1241-03	.1496-03	.9493-01	.7294	536.9
165	15.347	1.5840	2139.0	.4626-02	.5578-02	.5578-02	.9000	.1621-03	.1955-03	.1237	.8197	538.8
165	17.549	1.1200	2405.0	.5825-02	.7022-02	.7022-02	.9000	.2041-03	.2461-03	.1559	1.082	537.8
165	17.574	.28000	2408.0	.1601-02	.1929-02	.1929-02	.9000	.5609-04	.6759-04	.4293-01	.3693	536.3
165	17.574	.56000	2407.0	.2798-02	.3372-02	.3372-02	.9000	.9804-04	.1182-03	.7498-01	.5903	536.9
165	17.574	.86800	2406.0	.4518-02	.5445-02	.5445-02	.9000	.1583-03	.1908-03	.1210	.9486	537.6
165	17.574	1.5720	2404.0	.4553-02	.5490-02	.5490-02	.9000	.1595-03	.1924-03	.1216	.9022	539.4
165	19.845	1.5720	2410.0	.9513-02	.1147-01	.1147-01	.9000	.3333-03	.4020-03	.2541	1.699	539.4
165	22.000	.86800	2156.0	.3682-02	.4436-02	.4436-02	.9000	.1290-03	.1554-03	.9878-01	.8370	536.0
165	22.000	1.5720	2155.0	.5890-02	.7098-02	.7098-02	.9000	.2064-03	.2487-03	.1578	1.149	537.1
165	22.610	.14000-01	2035.0	.4207-02	.5069-02	.5069-02	.9000	.1474-03	.1776-03	.1129	.9081	536.1
165	22.640	.30800	2160.0	.5662-02	.6821-02	.6821-02	.9000	.1984-03	.2390-03	.1520	1.111	535.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1565

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN11)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
165	22.640	.86800	2159.0	.9762-02	.1177-01	.1177-01	.9000	.3421-03	.4124-03	.2613	2.212	537.9
165	22.640	1.2180	2158.0	.5895-02	.7103-02	.7103-02	.9000	.2066-03	.2489-03	.1581	1.425	536.4
165	22.640	1.5820	2157.0	.8273-02	.9949-02	.9949-02	.9000	.2899-03	.3486-03	.2240	1.649	528.9

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1566

OH84B 60-0 UPPER MID FUSELAGE

(R4UN11)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -4.000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
108	2.984	7.990	34.98	-4.050	670.1	1328.	96.43	.6920-01	3.092	3846.	.1937-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
108	.4352-01	.2346-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/R FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
108	9.7050	.67200	2088.0	.2358-02	.2835-02	.2835-02	.9000	.1026-03	.1234-03	.8096-01	.6956	538.8
108	9.7170	1.7090	2089.0	.1947-01	.2348-01	.2348-01	.9000	.8473-03	.1022-02	.6592	4.724	549.7
108	9.7990	1.1010	2087.0	.6535-02	.7861-02	.7861-02	.9000	.2844-03	.3421-03	.2238	1.611	540.6
108	10.806	.86700	2103.0	.3156-03	.3793-03	.3793-03	.9000	.1374-04	.1651-04	.1086-01	.1618	537.1
108	10.806	1.6380	2102.0	.2605-02	.3133-02	.3133-02	.9000	.1134-03	.1363-03	.8946-01	.8688	538.7
108	13.077	.86800	2125.0	.1661-02	.1995-02	.1995-02	.9000	.7229-04	.8684-04	.5730-01	.4422	535.1
108	13.077	1.6840	2122.0	.5214-02	.6269-02	.6269-02	.9000	.2269-03	.2728-03	.1790	1.586	538.9
108	13.107	.28000	2127.0	.7125-02	.8567-02	.8567-02	.9000	.3101-03	.3728-03	.2447	2.231	538.7
108	13.107	1.1280	2124.0	.1175-02	.1411-02	.1411-02	.9000	.5113-04	.6141-04	.4053-01	.2945	535.0
108	15.347	.86800	2140.0	.3370-02	.4048-02	.4048-02	.9000	.1467-03	.1762-03	.1164	.8951	534.4
108	15.347	1.5840	2139.0	.4464-02	.5364-02	.5364-02	.9000	.1943-03	.2335-03	.1538	1.021	536.2
108	17.549	1.1200	2405.0	.6541-02	.7859-02	.7859-02	.9000	.2846-03	.3420-03	.2253	1.565	536.2
108	17.574	.28000	2408.0	.2143-02	.2574-02	.2574-02	.9000	.9328-04	.1120-03	.7396-01	.6367	534.7
108	17.574	.56000	2407.0	.3681-02	.4421-02	.4421-02	.9000	.1602-03	.1924-03	.1270	1.001	534.7
108	17.574	.86800	2406.0	.4799-02	.5764-02	.5764-02	.9000	.2088-03	.2509-03	.1655	1.300	535.1
108	17.574	1.5720	2404.0	.6040-02	.7253-02	.7253-02	.9000	.2629-03	.3157-03	.2087	1.553	533.7
108	19.845	1.5720	2410.0	.8430-02	.1013-01	.1013-01	.9000	.3669-03	.4409-03	.2901	1.942	536.9
108	22.000	.86800	2156.0	.3375-02	.4053-02	.4053-02	.9000	.1469-03	.1764-03	.1166	.9893	533.7
108	22.000	1.5720	2155.0	.8077-02	.9703-02	.9703-02	.9000	.3515-03	.4223-03	.2784	2.029	535.7
108	22.610	.14000-01	2036.0	.7499-02	.9009-02	.9009-02	.9000	.3264-03	.3921-03	.2586	2.082	535.3
108	22.640	.30800	2160.0	.8050-02	.9669-02	.9669-02	.9000	.3504-03	.4208-03	.2779	2.033	534.5

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1567

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN11)

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
108	22.640	.86800	2159.0	.1033-01	.1241-01	.1241-01	.9000	.4496-03	.5402-03	.3558	3.014	536.3
108	22.640	1.2180	2158.0	.1129-01	.1356-01	.1356-01	.9000	.4912-03	.5904-03	.3883	3.501	537.1
108	22.640	1.5820	2157.0	.1400-01	.1679-01	.1679-01	.9000	.6093-03	.7307-03	.4870	3.585	528.4

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1568

OH84B 60-0 UPPER MID FUSELAGE

(R4UN11)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -4.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	PN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
142	3.684	8.000	35.01	-4.001	853.7	1353.	98.02	.8745-01	3.918	3883.	.2408-02	.7888-07

RUN NUMBER	REF BTU/ R FT2SEC	STN NO REF (R) *.0175
142	.4914-01	.2108-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
142	9.7050	.67200	2088.0	.2288-02	.2747-02	.2747-02	.9000	.1124-03	.1350-03	.9106-01	.7807	542.8
142	9.7170	1.7090	2089.0	.1975-01	.2379-01	.2379-01	.9000	.9705-03	.1169-03	.7728	5.519	556.4
142	9.7990	1.1010	2087.0	.6456-02	.7755-02	.7755-02	.9000	.3173-03	.3811-03	.2561	1.839	545.5
142	10.806	.86700	2103.0	.3241-03	.3889-03	.3889-03	.9000	.1593-04	.1911-04	.1292-01	.1921	541.5
142	10.806	1.6380	2102.0	.2487-02	.2986-02	.2986-02	.9000	.1222-03	.1468-03	.9889-01	.9581	543.6
142	13.077	.86800	2125.0	.1794-02	.2152-02	.2152-02	.9000	.8816-04	.1058-03	.7166-01	.5517	539.8
142	13.077	1.6840	2122.0	.5033-02	.6044-02	.6044-02	.9000	.2474-03	.2970-03	.2000	1.769	543.9
142	13.107	.28000	2127.0	.7512-02	.9020-02	.9020-02	.9000	.3692-03	.4433-03	.2987	2.717	543.6
142	13.107	1.1280	2124.0	.1264-02	.1516-02	.1516-02	.9000	.6211-04	.7451-04	.5049-01	.3660	539.7
142	15.347	.86800	2140.0	.3549-02	.4257-02	.4257-02	.9000	.1744-03	.2092-03	.1420	1.090	538.6
142	15.347	1.5840	2139.0	.4784-02	.5741-02	.5741-02	.9000	.2351-03	.2821-03	.1909	1.264	540.8
142	17.549	1.1200	2405.0	.5539-02	.6646-02	.6646-02	.9000	.2722-03	.3266-03	.2210	1.532	540.7
142	17.574	.28000	2408.0	.2883-02	.3458-02	.3458-02	.9000	.1417-03	.1700-03	.1152	.9896	539.4
142	17.574	.56000	2407.0	.3738-02	.4484-02	.4484-02	.9000	.1837-03	.2203-03	.1493	1.174	539.6
142	17.574	.86800	2406.0	.4721-02	.5664-02	.5664-02	.9000	.2320-03	.2783-03	.1886	1.478	539.8
142	19.845	1.5720	2413.0	.7742-02	.9290-02	.9290-02	.9000	.3804-03	.4565-03	.3088	2.063	541.0
142	22.000	.96800	2156.0	.3084-02	.3698-02	.3698-02	.9000	.1516-03	.1817-03	.1235	1.045	537.9
142	22.000	1.5720	2155.0	.7228-02	.8672-02	.8672-02	.9000	.3552-03	.4262-03	.2886	2.098	540.3
142	22.610	.14000-01	2036.0	.8079-02	.9694-02	.9694-02	.9000	.3970-03	.4764-03	.3223	2.587	540.8
142	22.640	.30800	2160.0	.8124-02	.9745-02	.9745-02	.9000	.3992-03	.4789-03	.3247	2.369	539.4
142	22.640	.86800	2159.0	.1280-01	.1536-01	.1536-01	.9000	.6289-03	.7549-03	.5096	4.304	542.3

DATE 13 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UNIT1)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
142	22.640	1.2180	2158.0	.1277-01	.1533-01	.1533-01	.9000	.6277-03	.7535-03	.5086	4.572	542.4
142	22.640	1.5820	2157.0	.1516-01	.1816-01	.1816-01	.9000	.7451-03	.8925-03	.6101	4.480	533.8

DATE 10 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1570

OH84B 60-0 UPPER MID FUSELAGE

(R4UN12)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
162	2.007	7.980	35.00	-1.998	435.0	1300.	94.62	.4529-01	2.019	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
162	.3503-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
162	9.7050	.67200	2088.0	.1725-02	.2080-02	.2080-02	.9000	.6042-04	.7286-04	.4601-01	.3954	538.2
162	9.7170	1.7090	2089.0	.1685-01	.2038-01	.2038-01	.9000	.5905-03	.7139-03	.4439	3.184	547.9
162	9.7990	1.1010	2087.0	.5787-02	.6982-02	.6982-02	.9000	.2027-03	.2446-03	.1539	1.108	540.5
162	10.806	.86700	2103.0	.2075-03	.2501-03	.2501-03	.9000	.7269-05	.8763-05	.5542-02	.8259-01	537.3
162	10.806	1.6380	2102.0	.2408-02	.2904-02	.2904-02	.9000	.8437-04	.1017-03	.6420-01	.6236	538.7
162	13.077	.86800	2125.0	.1404-02	.1691-02	.1691-02	.9000	.4918-04	.5925-04	.3760-01	.2902	535.1
162	13.077	1.6840	2122.0	.4612-02	.5561-02	.5561-02	.9000	.1616-03	.1948-03	.1230	1.091	538.1
162	13.107	.28000	2127.0	.3244-02	.3911-02	.3911-02	.9000	.1136-03	.1370-03	.8657-01	.7897	537.8
162	13.107	1.1280	2124.0	.1213-02	.1461-02	.1461-02	.9000	.4248-04	.5118-04	.3247-01	.2359	535.2
162	15.347	.86800	2140.0	.2845-02	.3426-02	.3426-02	.9000	.9965-04	.1200-03	.7628-01	.5869	534.2
162	15.347	1.5840	2139.0	.3835-02	.4621-02	.4621-02	.9000	.1344-03	.1619-03	.1027	.6816	535.6
162	17.549	1.1200	2405.0	.3839-02	.4625-02	.4625-02	.9000	.1345-03	.1620-03	.1029	.7149	534.9
162	17.574	.28000	2408.0	.1315-02	.1583-02	.1583-02	.9000	.4605-04	.5547-04	.3526-01	.3037	534.0
162	17.574	.56000	2407.0	.2575-02	.3102-02	.3102-02	.9000	.9021-04	.1087-03	.6905-01	.5443	534.2
162	17.574	.86800	2406.0	.3749-02	.4517-02	.4517-02	.9000	.1313-03	.1582-03	.1005	.7890	534.8
162	17.574	1.5720	2404.0	.4638-02	.5590-02	.5590-02	.9000	.1625-03	.1958-03	.1240	.9213	536.5
162	21.700	1.5720	2410.0	.7148-02	.8614-02	.8614-02	.9000	.2504-03	.3018-03	.1913	1.281	535.9
162	21.700	.86800	2156.0	.5184-02	.6244-02	.6244-02	.9000	.1816-03	.2188-03	.1390	1.179	534.2
162	22.700	1.5720	2155.0	.2491-02	.2999-02	.2999-02	.9000	.8725-04	.1051-03	.6683-01	.4876	533.7
162	22.710	.14000-01	2036.0	.3030-02	.3649-02	.3649-02	.9000	.1061-03	.1278-03	.8131-01	.6550	533.7
162	22.640	.30800	2160.0	.4169-02	.5020-02	.5020-02	.9000	.1460-03	.1759-03	.1119	.8189	533.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN12)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(ITO) BTU/R FT2SEC	H(ITAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
162	22.640	.86800	2159.0	.5317-02	.6403-02	.6403-02	.9000	.1863-03	.2243-03	.1427	1.210	533.6
162	22.640	1.2180	2158.0	.4776-02	.5752-02	.5752-02	.9000	.1673-03	.2015-03	.1282	1.158	533.4
162	22.640	1.5820	2157.0	.4774-02	.5736-02	.5736-02	.9000	.1673-03	.2010-03	.1296	.9563	524.6



## OH84B 60-0 UPPER MID FUSELAGE

(R4UN12)

## UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO. PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
105	3.010	7.990	35.02	-1.985	670.5	1321.	95.92	.6924-01	3.094	3836.	.1948-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
105	.4349-01	.2338-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
105	9.7050	.67200	2088.0	.1524-02	.1834-02	.1834-02	.9000	.6628-04	.7975-04	.5184-01	.4454	538.6
105	9.7170	1.7090	2089.0	.1711-01	.2063-01	.2063-01	.9000	.7442-03	.8973-03	.5760	4.134	546.7
105	9.7990	1.1010	2087.0	.5523-02	.6647-02	.6647-02	.9000	.2402-03	.2891-03	.1876	1.351	539.7
105	10.806	.86700	2103.0	.2682-03	.3227-03	.3227-03	.9000	.1167-04	.1404-04	.9130-02	.1360	538.1
105	10.806	1.6380	2102.0	.2207-02	.2655-02	.2655-02	.9000	.9598-04	.1155-03	.7509-01	.7294	528.3
105	13.077	.86800	2125.0	.1435-02	.1726-02	.1726-02	.9000	.6244-04	.7506-04	.4901-01	.3781	535.6
105	13.077	1.6840	2122.0	.4452-02	.5356-02	.5356-02	.9000	.1936-03	.2330-03	.1514	1.342	538.7
105	13.107	.28000	2127.0	.4359-02	.5244-02	.5244-02	.9000	.1896-03	.2281-03	.1483	1.353	538.2
105	13.107	1.1280	2124.0	.1130-02	.1358-02	.1358-02	.9000	.4913-04	.5907-04	.3858-01	.2802	535.6
105	15.347	.86800	2140.0	.3382-02	.4065-02	.4065-02	.9000	.1471-03	.1768-03	.1156	.8890	534.9
105	15.347	1.5840	2139.0	.3503-02	.4212-02	.4212-02	.9000	.1524-03	.1832-03	.1196	.7938	535.8
105	17.549	1.1200	2405.0	.4777-02	.5743-02	.5743-02	.9000	.2078-03	.2498-03	.1631	1.133	535.6
105	17.574	.28000	2408.0	.2166-02	.2604-02	.2604-02	.9000	.9420-04	.1132-03	.7399-01	.6368	535.3
105	17.574	.56000	2407.0	.3235-02	.3889-02	.3889-02	.9000	.1407-03	.1691-03	.1105	.8705	535.3
105	17.574	.86800	2406.0	.3463-02	.4162-02	.4162-02	.9000	.1506-03	.1810-03	.1183	.9288	535.2
105	17.574	1.5720	2404.0	.4200-02	.5045-02	.5045-02	.9000	.1827-03	.2194-03	.1439	1.071	532.9
105	19.845	1.5720	2410.0	.1023-01	.1231-01	.1231-01	.9000	.4451-03	.5353-03	.3487	2.334	537.3
105	22.000	.86800	2156.0	.3326-02	.3997-02	.3997-02	.9000	.1447-03	.1738-03	.1138	.9651	534.1
105	22.000	1.5720	2155.0	.4304-02	.5174-02	.5174-02	.9000	.1872-03	.2250-03	.1471	1.072	534.9
105	22.610	.14000-01	2036.0	.4557-02	.5477-02	.5477-02	.9000	.1982-03	.2382-03	.1557	1.254	534.8
105	22.640	.30800	2160.0	.4869-02	.5852-02	.5852-02	.9000	.2118-03	.2545-03	.1666	1.219	533.9

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN12)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
105	22.640	.86800	2159.0	.6019-02	.7234-02	.7234-02	.9000	.2618-03	.3146-03	.2058	1.745	534.5
105	22.640	1.2180	2158.0	.6940-02	.8342-02	.8342-02	.9000	.3019-03	.3628-03	.2373	2.141	534.7
105	22.640	1.5820	2157.0	.5722-02	.6862-02	.6862-02	.9000	.2489-03	.2984-03	.1979	1.459	525.5

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1574

OH84B 60-0 UPPER MID FUSELAGE

(R4UN12)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.030    ALPHA = 35.00    BETA = -2.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
139	3.682	8.000	35.03	-1.973	853.3	1353.	98.02	.8741-01	3.916	3883.	.2407-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
139	.4913-01	.2109-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
139	9.7050	.67200	2088.0	.1230-02	.1476-02	.1476-02	.9000	.6041-04	.7253-04	.4891-01	.4193	543.0
139	9.7170	1.7090	2089.0	.1706-01	.2054-01	.2054-01	.9000	.8380-03	.1009-02	.6685	4.778	554.9
139	9.7990	1.1010	2087.0	.5528-02	.6640-02	.6640-02	.9000	.2716-03	.3263-03	.2193	1.575	545.3
139	10.806	.86700	2103.0	.3778-03	.4536-03	.4536-03	.9000	.1856-04	.2223-04	.1502-01	.2232	543.3
139	10.806	1.6380	2102.0	.2139-02	.2568-02	.2568-02	.9000	.1051-03	.1262-03	.8503-01	.8238	543.6
139	13.077	.86800	2125.0	.1673-02	.2008-02	.2008-02	.9000	.8220-04	.9963-04	.6673-01	.5135	540.8
139	13.077	1.6840	2122.0	.4317-02	.5184-02	.5184-02	.9000	.2121-03	.2547-03	.1715	1.516	544.0
139	13.107	.28000	2127.0	.5010-02	.6016-02	.6016-02	.9000	.2461-03	.2956-03	.1990	1.810	544.1
139	13.107	1.1280	2124.0	.1316-02	.1579-02	.1579-02	.9000	.6465-04	.7757-04	.5250-01	.3804	540.6
139	15.347	.86800	2140.0	.3616-02	.4338-02	.4338-02	.9000	.1777-03	.2132-03	.1444	1.108	540.0
139	15.347	1.5840	2139.0	.3883-02	.4659-02	.4659-02	.9000	.1908-03	.2289-03	.1548	1.025	541.0
139	17.549	1.1200	2405.0	.4930-02	.5916-02	.5916-02	.9000	.2422-03	.2907-03	.1966	1.362	541.2
139	17.574	.28000	2408.0	.3485-02	.4183-02	.4183-02	.9000	.1712-03	.2055-03	.1389	1.192	541.5
139	17.574	.56000	2407.0	.4327-02	.5192-02	.5192-02	.9000	.2126-03	.2551-03	.1725	1.355	541.2
139	17.574	.86800	2406.0	.3674-02	.4408-02	.4408-02	.9000	.1805-03	.2166-03	.1466	1.148	540.6
139	17.574	1.5720	2404.0	.3199-02	.3821-02	.3821-02	.9000	.1572-03	.1877-03	.1306	.9774	521.8
139	19.845	1.5720	2410.0	.1082-01	.1299-01	.1299-01	.9000	.5316-03	.6383-03	.4304	2.872	543.1
139	22.000	.86800	2156.0	.3373-02	.4046-02	.4046-02	.9000	.1657-03	.1988-03	.1349	1.141	538.9
139	22.000	1.5720	2155.0	.4484-02	.5380-02	.5380-02	.9000	.2203-03	.2643-03	.1790	1.301	540.2
139	22.610	.14000-01	2036.0	.6783-02	.8140-02	.8140-02	.9000	.3333-03	.3999-03	.2705	2.171	541.1
139	22.640	.30800	2160.0	.6009-02	.7208-02	.7208-02	.9000	.2952-03	.3541-03	.2401	1.752	539.5

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN12)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
139	22.640	.86800	2159.0	.6772-02	.8123-02	.8123-02	.9000	.3327-03	.3991-03	.2705	2.288	539.5
139	22.640	1.2180	2158.0	.8366-02	.1004-01	.1004-01	.9000	.4110-03	.4932-03	.3338	3.003	540.6
139	22.640	1.5820	2157.0	.6539-02	.7827-02	.7827-02	.9000	.3213-03	.3846-03	.2640	1.941	530.9

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1576

OH84B 60-0 UPPER MID FUSELAGE

(R4UN13)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDIT \*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
159	2.024	7.980	35.01	-.9963	436.7	1296.	94.33	.4547-01	2.027	3799.	.1301-02	.7590-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
159	.3508-01	.2856-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
159	9.7050	.67200	2088.0	.1679-02	.2025-02	.2025-02	.9000	.5892-04	.7105-04	.4471-01	.3845	536.9
159	9.7170	1.7090	2089.0	.1594-01	.1927-01	.1927-01	.9000	.5593-03	.6759-03	.4201	3.018	544.6
159	9.7990	1.1010	2087.0	.5526-02	.6667-02	.6667-02	.9000	.1939-03	.2339-03	.1468	1.058	538.5
159	10.806	.86700	2103.0	.7082-03	.8540-03	.8540-03	.9000	.2485-04	.2996-04	.1885-01	.2810	536.8
159	10.806	1.6380	2102.0	.2200-02	.2654-02	.2654-02	.9000	.7719-04	.9309-04	.5856-01	.5692	537.1
159	13.077	.86800	2125.0	.1737-02	.2093-02	.2093-02	.9000	.6093-04	.7343-04	.4636-01	.3578	534.8
159	13.077	1.6840	2122.0	.4286-02	.5168-02	.5168-02	.9000	.1503-03	.1813-03	.1141	1.012	536.8
159	13.107	.28000	2127.0	.2556-02	.3082-02	.3082-02	.9000	.8967-04	.1081-03	.6805-01	.6210	536.8
159	13.107	1.1280	2124.0	.1178-02	.1419-02	.1419-02	.9000	.4132-04	.4980-04	.3144-01	.2285	534.7
159	15.347	.86800	2140.0	.2614-02	.3149-02	.3149-02	.9000	.9170-04	.1105-03	.6985-01	.5375	533.9
159	15.347	1.5840	2139.0	.3498-02	.4216-02	.4216-02	.9000	.1227-03	.1479-03	.9339-01	.6203	534.7
159	17.549	1.1200	2405.0	.3245-02	.3910-02	.3910-02	.9000	.1138-03	.1372-03	.8668-01	.6026	534.3
159	17.574	.28000	2408.0	.1310-02	.1578-02	.1578-02	.9000	.4595-04	.5537-04	.3500-01	.3014	534.0
159	17.574	.56000	2407.0	.2638-02	.3179-02	.3179-02	.9000	.9254-04	.1115-03	.7048-01	.5556	534.1
159	17.574	.86800	2405.0	.4246-02	.5118-02	.5118-02	.9000	.1490-03	.1796-03	.1133	.8902	534.8
159	17.574	1.5720	2404.0	.5079-02	.6123-02	.6123-02	.9000	.1782-03	.2148-03	.1354	1.006	535.7
159	19.845	1.5720	2410.0	.4555-02	.5490-02	.5490-02	.9000	.1598-03	.1926-03	.1216	.8148	534.8
159	22.000	.86800	2156.0	.5880-02	.7087-02	.7087-02	.9000	.2063-03	.2486-03	.1570	1.331	534.6
159	22.000	1.5720	2155.0	.1884-02	.2269-02	.2269-02	.9000	.6608-04	.7961-04	.5039-01	.3677	533.1
159	22.610	.14000-01	2036.0	.3725-02	.4490-02	.4490-02	.9000	.1307-03	.1575-03	.9940-01	.8002	535.0
159	22.640	.30800	2160.0	.4238-02	.5108-02	.5108-02	.9000	.1487-03	.1792-03	.1132	.8279	534.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN13)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
159	22.640	.86800	2159.0	.5725-02	.6899-02	.6899-02	.9000	.2008-03	.2420-03	.1529	1.297	534.3
159	22.640	1.2180	2158.0	.4903-02	.5907-02	.5907-02	.9000	.1720-03	.2072-03	.1311	1.184	533.6
159	22.640	1.5820	2157.0	.3182-02	.3823-02	.3823-02	.9000	.1116-03	.1341-03	.0618-01	.6360	523.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1578

OH84B 60-0 UPPER MID FUSELAGE

(R4UN13)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
102	3.006	7.990	35.02	-9.987	672.7	1325.	96.21	.6947-01	3.104	3842.	.1949-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
102	.4359-01	.2339-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
102	9.7050	.67200	2088.0	.1624-02	.1955-02	.1955-02	.9000	.7079-04	.8520-04	.5546-01	.4758	541.3
102	9.7170	1.7090	2089.0	.1569-01	.1892-01	.1892-01	.9000	.6839-03	.8247-03	.5303	3.801	549.2
102	9.7990	1.1010	2087.0	.5046-02	.6075-02	.6075-02	.9000	.2200-03	.2648-03	.1721	1.238	542.4
102	10.806	.86700	2103.0	.7049-03	.8485-03	.8485-03	.9000	.3073-04	.3698-04	.2405-01	.3576	541.9
102	10.806	1.6380	2102.0	.2006-02	.2414-02	.2414-02	.9000	.8743-04	.1052-03	.6850-01	.6644	541.3
102	13.077	.86800	2125.0	.2063-02	.2482-02	.2482-02	.9000	.8994-04	.1082-03	.7068-01	.5444	538.9
102	13.077	1.6840	2122.0	.4116-02	.4954-02	.4954-02	.9000	.1794-03	.2159-03	.1405	1.243	541.6
102	13.107	.28000	2127.0	.2279-02	.2742-02	.2742-02	.9000	.9932-04	.1195-03	.7793-01	.7100	540.1
102	13.107	1.1280	2124.0	.1154-02	.1388-02	.1388-02	.9000	.5032-04	.6051-04	.3956-01	.2870	538.5
102	15.347	.86800	2140.0	.4089-02	.4917-02	.4917-02	.9000	.1782-03	.2143-03	.1403	1.078	537.4
102	15.347	1.5840	2139.0	.3297-02	.3965-02	.3965-02	.9000	.1437-03	.1728-03	.1130	.7487	538.7
102	17.549	1.1200	2405.0	.4382-02	.5269-02	.5269-02	.9000	.1910-03	.2297-03	.1502	1.042	538.3
102	17.574	.28000	2408.0	.2286-02	.2750-02	.2750-02	.9000	.9966-04	.1198-03	.7837-01	.6735	538.3
102	17.574	.56000	2407.0	.2473-02	.2974-02	.2974-02	.9000	.1078-03	.1296-03	.8485-01	.6678	537.6
102	17.574	.86800	2406.0	.4564-02	.5488-02	.5488-02	.9000	.1989-03	.2392-03	.1565	1.227	538.1
102	17.574	1.5720	2404.0	.3732-02	.4484-02	.4484-02	.9000	.1627-03	.1955-03	.1283	.9540	535.6
102	19.845	1.5720	2410.0	.7451-02	.8965-02	.8965-02	.9000	.3248-03	.3907-03	.2549	1.704	539.9
102	22.000	.86800	2156.0	.4261-02	.5121-02	.5121-02	.9000	.1857-03	.2232-03	.1464	1.240	536.6
102	22.000	1.5720	2155.0	.2220-02	.2668-02	.2668-02	.9000	.9675-04	.1163-03	.7623-01	.5552	536.8
102	22.610	.14000-01	2036.0	.5673-02	.6821-02	.6821-02	.9000	.2473-03	.2973-03	.1945	1.564	537.9
102	22.640	.30800	2160.0	.5059-02	.6081-02	.6081-02	.9000	.2205-03	.2651-03	.1739	1.271	536.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN13)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
102	22.640	.86800	2159.0	.5534-02	.6653-02	.6653-02	.9000	.2412-03	.2900-03	.1901	1.610	536.6
102	22.640	1.2180	2158.0	.5378-02	.6464-02	.6464-02	.9000	.2344-03	.2818-03	.1847	1.666	536.6
102	22.640	1.5820	2157.0	.3905-02	.4682-02	.4682-02	.9000	.1702-03	.2041-03	.1358	1.001	526.6



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1580

OH84B 60-0 UPPER MID FUSELAGE

(R4UN13)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = -1.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
136	3.699	8.000	35.06	-.9697	856.1	1352.	97.95	.8769-01	3.929	3881.	.2416-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
136	.4921-01	.2104-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
136	9.7050	.67200	2088.0	.1566-02	.1904-02	.1904-02	.9000	.7804-04	.9369-04	.6314-01	.5414	542.5
136	9.7170	1.7090	2089.0	.1572-01	.1892-01	.1892-01	.9000	.7736-03	.9310-03	.6186	4.428	552.0
136	9.7990	1.1010	2087.0	.4930-02	.5921-02	.5921-02	.9000	.2426-03	.2913-03	.1960	1.409	543.8
136	10.806	.86700	2103.0	.8459-03	.1016-02	.1016-02	.9000	.4162-04	.4998-04	.3364-01	.4998	543.4
136	10.806	1.6380	2102.0	.1923-02	.2309-02	.2309-02	.9000	.9464-04	.1136-03	.7658-01	.7424	542.4
136	13.077	.86800	2125.0	.2252-02	.2702-02	.2702-02	.9000	.1108-03	.1330-03	.8991-01	.6920	540.3
136	13.077	1.6840	2122.0	.3961-02	.4756-02	.4756-02	.9000	.1949-03	.2340-03	.1576	1.394	543.1
136	13.107	.28000	2127.0	.2317-02	.2781-02	.2781-02	.9000	.1140-03	.1368-03	.9232-01	.8404	541.8
136	13.107	1.1280	2124.0	.1198-02	.1437-02	.1437-02	.9000	.5893-04	.7070-04	.4785-01	.3469	539.7
136	15.347	.86800	2140.0	.4705-02	.5644-02	.5644-02	.9000	.2315-03	.2777-03	.1880	1.443	539.5
136	15.347	1.5840	2139.0	.3817-02	.4580-02	.4580-02	.9000	.1878-03	.2254-03	.1523	1.009	540.6
136	17.549	1.1200	2405.0	.4257-02	.5108-02	.5108-02	.9000	.2095-03	.2513-03	.1700	1.178	540.1
136	17.574	.28000	2408.0	.3095-02	.3713-02	.3713-02	.9000	.1523-03	.1827-03	.1236	1.061	540.0
136	17.574	.56000	2407.0	.2853-02	.3423-02	.3423-02	.9000	.1404-03	.1684-03	.1140	.8964	539.6
136	17.574	.86800	2406.0	.4267-02	.5119-02	.5119-02	.9000	.2100-03	.2519-03	.1705	1.336	539.6
136	17.574	1.5720	2404.0	.6309-02	.7550-02	.7550-02	.9000	.3104-03	.3715-03	.2553	1.904	529.3
136	19.845	1.5720	2410.0	.9778-02	.1174-01	.1174-01	.9000	.4811-03	.5776-03	.3895	2.601	542.1
136	22.000	.86800	2156.0	.3760-02	.4509-02	.4509-02	.9000	.1850-03	.2219-03	.1505	1.274	538.1
136	22.000	1.5720	2155.0	.2545-02	.3053-02	.3053-02	.9000	.1252-03	.1502-03	.1018	.7408	538.7
136	22.610	.14000-01	2036.0	.7801-02	.9362-02	.9352-02	.9000	.3839-03	.4607-03	.3113	2.498	540.8
136	22.640	.30800	2160.0	.6144-02	.7369-02	.7369-02	.9000	.3023-03	.3626-03	.2458	1.794	538.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN13)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
136	22.640	.86800	2159.0	.6157-02	.7385-02	.7385-02	.9000	.3030-03	.3634-03	.2463	2.084	538.6
136	22.640	1.2180	2158.0	.6077-02	.7290-02	.7290-02	.9000	.2990-03	.3587-03	.2430	2.189	538.9
136	22.640	1.5820	2157.0	.5196-02	.6218-02	.6218-02	.9000	.2557-03	.3060-03	.2102	1.547	529.6

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN14)

## UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
14	.5200	7.900	34.96	.2136-02	102.3	1241.	92.02	.1137-01	.4968	3715.	.3335-03	.7405-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
14	.1724-01	.5615-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=0.7 TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
14	9.7050	.67200	2088.0	.2159-02	.2622-02	.2622-02	.9000	.3723-04	.4519-04	.2620-01	.2253	536.9
14	9.7170	1.7090	2089.0	.1521-01	.1850-01	.1850-01	.9000	.2623-03	.3189-03	.1833	1.319	541.6
14	9.7990	1.1010	2087.0	.5790-02	.7031-02	.7031-02	.9000	.9981-04	.1212-03	.7016-01	.5058	537.8
14	10.806	.86700	2103.0	.4115-03	.4995-03	.4995-03	.9000	.7093-05	.8610-05	.4994-02	.7445-01	536.6
14	10.806	1.6380	2102.0	.2633-02	.3196-02	.3196-02	.9000	.4539-04	.5510-04	.3196-01	.3108	536.5
14	13.077	.86800	2125.0	.1233-02	.1496-02	.1496-02	.9000	.2126-04	.2579-04	.1500-01	.1158	534.8
14	13.077	1.6840	2122.0	.5100-02	.6191-02	.6191-02	.9000	.8792-04	.1067-03	.6192-01	.5495	536.4
14	13.107	.28000	2127.0	.1814-02	.2202-02	.2202-02	.9000	.3128-04	.3796-04	.2205-01	.2014	535.6
14	13.107	1.1280	2124.0	.1519-02	.1843-02	.1843-02	.9000	.2619-04	.3177-04	.1848-01	.1343	535.0
14	15.347	.86800	2140.0	.1741-02	.2111-02	.2111-02	.9000	.3001-04	.3639-04	.2123-01	.1634	533.3
14	15.347	1.5840	2139.0	.4190-02	.5083-02	.5083-02	.9000	.7224-04	.8762-04	.5104-01	.3391	534.2
14	17.549	1.1200	2405.0	.1870-02	.2267-02	.2267-02	.9000	.3223-04	.3909-04	.2280-01	.1586	533.3
14	17.574	.28000	2408.0	.2173-02	.2635-02	.2635-02	.9000	.3745-04	.4543-04	.2646-01	.2279	534.1
14	17.574	.56000	2407.0	.2605-02	.3159-02	.3159-02	.9000	.4490-04	.5446-04	.3175-01	.2504	533.6
14	17.574	.86800	2406.0	.2168-02	.2629-02	.2629-02	.9000	.3738-04	.4532-04	.2645-01	.2079	533.0
14	17.574	1.5720	2404.0	.4830-02	.5858-02	.5858-02	.9000	.8326-04	.1010-03	.5882-01	.4375	534.2
14	19.845	1.5720	2410.0	.3795-02	.4603-02	.4603-02	.9000	.6543-04	.7935-04	.4627-01	.3103	533.5
14	22.000	.86800	2156.0	.1931-02	.2341-02	.2341-02	.9000	.3329-04	.4036-04	.2359-01	.2002	532.2
14	22.000	1.5720	2155.0	.9912-03	.1202-02	.1202-02	.9000	.1709-04	.2071-04	.1211-01	.8842-01	531.9
14	22.610	.14000-01	2036.0	.3702-02	.4490-02	.4490-02	.9000	.6382-04	.7740-04	.4513-01	.3636	533.5
14	22.640	.70800	2160.0	.3948-02	.4787-02	.4787-02	.9000	.6806-04	.8252-04	.4816-01	.3526	533.0

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN14)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
14	22.640	.95900	2159.0	.2265-02	.2745-02	.2745-02	.9000	.3904-04	.4733-04	.2767-01	.2349	531.9
14	22.640	1.2180	2158.0	.9417-03	.1141-02	.1141-02	.9000	.1623-04	.1967-04	.1152-01	.1041	531.2
14	22.640	1.5820	2157.0	.1105-02	.1339-02	.1339-02	.9000	.1904-04	.2308-04	.1351-01	.9937-01	531.0

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1584

OH84B 60-0 UPPER MID FUSELAGE

(R4UN14)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
61	2.001	7.980	34.99	.9426-07	435.2	1303.	94.84	.4531-01	2.020	3810.	.1289-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
61	.3505-01	.2970-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
61	9.7050	.67200	2088.0	.2501-02	.3015-02	.3015-02	.9000	.8768-04	.1057-03	.6704-01	.5762	538.0
61	9.7170	1.7090	2089.0	.1502-01	.1813-01	.1813-01	.9000	.5264-03	.6357-03	.3990	2.866	544.7
61	9.7990	1.1010	2087.0	.4787-02	.5771-02	.5771-02	.9000	.1678-03	.2023-03	.1282	.9234	538.9
61	10.806	.86700	2103.0	.8326-03	.1003-02	.1003-02	.9000	.2918-04	.3517-04	.2233-01	.3327	537.6
61	10.806	1.6380	2102.0	.2086-02	.2513-02	.2513-02	.9000	.7311-04	.8810-04	.5598-01	.5442	537.0
61	13.077	.86800	2125.0	.1926-02	.2319-02	.2319-02	.9000	.6750-04	.8129-04	.5185-01	.4002	534.6
61	13.077	1.6840	2122.0	.4318-02	.5203-02	.5203-02	.9000	.1514-03	.1824-03	.1160	1.029	536.5
61	13.107	.28000	2127.0	.1698-02	.2045-02	.2045-02	.9000	.5950-04	.7168-04	.4564-01	.4168	535.6
61	13.107	1.1280	2124.0	.1261-02	.1519-02	.1519-02	.9000	.4422-04	.5325-04	.3398-01	.2470	534.3
61	15.347	.86800	2140.0	.2726-02	.3291-02	.3291-02	.9000	.9555-04	.1150-03	.7351-01	.5659	533.3
61	15.347	1.5840	2139.0	.3396-02	.4090-02	.4090-02	.9000	.1191-03	.1434-03	.9147-01	.6077	534.3
61	17.549	1.1200	2405.0	.3110-02	.3745-02	.3745-02	.9000	.1090-03	.1313-03	.8382-01	.5829	533.9
61	17.574	.28000	2408.0	.1575-02	.1896-02	.1896-02	.9000	.5519-04	.6645-04	.4243-01	.3655	533.8
61	17.574	.56000	2407.0	.3052-02	.3675-02	.3675-02	.9000	.1070-03	.1288-03	.8223-01	.6484	534.0
61	17.574	.86800	2406.0	.4957-02	.5969-02	.5969-02	.9000	.1738-03	.2092-03	.1336	1.049	534.0
61	17.574	1.5720	2404.0	.8020-02	.9657-02	.9657-02	.9000	.2811-03	.3395-03	.2160	1.607	534.2
61	19.845	1.5720	2410.0	.3786-02	.4558-02	.4558-02	.9000	.1327-03	.1598-03	.1020	.6842	533.7
61	22.000	.86800	2156.0	.5487-02	.6604-02	.6604-02	.9000	.1923-03	.2315-03	.1481	1.257	532.5
61	22.000	1.5720	2155.0	.1380-02	.1657-02	.1657-02	.9000	.4838-04	.5809-04	.3769-01	.2764	523.6
61	22.610	.14000-01	2036.0	.3669-02	.4416-02	.4416-02	.9000	.1286-03	.1548-03	.9906-01	.7985	532.5
61	22.640	.30800	2160.0	.3954-02	.4758-02	.4758-02	.9000	.1386-03	.1668-03	.1069	.7831	531.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R40N14)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
61	22.640	.86800	2159.0	.6155-02	.7407-02	.7407-02	.9000	.2158-03	.2596-03	.1663	1.412	531.8
61	22.640	1.2180	2158.0	.5593-02	.6730-02	.6730-02	.9000	.1960-03	.2359-03	.1511	1.366	531.7
61	22.640	1.5920	2157.0	.3625-02	.4351-02	.4351-02	.9000	.1271-03	.1525-03	.9924-01	.7331	521.7

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN14)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
80	3.039	7.990	35.01	-.6938-03	670.1	1312.	95.27	.6920-01	3.092	3823.	.1960-02	.7666-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
80	.4343-01	.2329-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
80	9.7050	.67200	2088.0	.2452-02	.2953-02	.2953-02	.9000	.1065-03	.1283-03	.8226-01	.7066	539.1
80	9.7170	1.7090	2089.0	.1466-01	.1769-01	.1769-01	.9000	.6366-03	.7683-03	.4869	3.494	546.8
80	9.7990	1.1010	2087.0	.4547-02	.5477-02	.5477-02	.9000	.1975-03	.2379-03	.1524	1.098	539.7
80	10.806	.86700	2103.0	.8205-03	.9882-03	.9882-03	.9000	.3563-04	.4292-04	.2754-01	.4102	538.7
80	10.806	1.6380	2102.0	.1943-02	.2340-02	.2340-02	.9000	.8439-04	.1016-03	.6526-01	.6339	538.4
80	13.077	.86800	2125.0	.2125-02	.2558-02	.2558-02	.9000	.9231-04	.1111-03	.7160-01	.5523	536.0
80	13.077	1.6840	2122.0	.3835-02	.4618-02	.4618-02	.9000	.1665-03	.2005-03	.1288	1.142	538.3
80	13.107	.28000	2127.0	.1530-02	.1842-02	.1842-02	.9000	.6646-04	.8000-04	.5151-01	.4702	536.6
80	13.107	1.1280	2124.0	.1222-02	.1470-02	.1470-02	.9000	.5306-04	.6385-04	.4118-01	.2992	535.5
80	15.347	.86800	2140.0	.3462-02	.4165-02	.4165-02	.9000	.1503-03	.1809-03	.1168	.8979	535.1
80	15.347	1.5840	2139.0	.3228-02	.3885-02	.3885-02	.9000	.1402-03	.1687-03	.1087	.7219	535.9
80	17.549	1.1200	2405.0	.4652-02	.5599-02	.5599-02	.9000	.2021-03	.2431-03	.1568	1.090	535.5
80	17.574	.28000	2408.0	.2571-02	.3094-02	.3094-02	.9000	.1117-03	.1344-03	.8668-01	.7460	535.4
80	17.574	.56000	2407.0	.3362-02	.4046-02	.4046-02	.9000	.1460-03	.1757-03	.1134	.8935	535.1
80	17.574	.86800	2406.0	.5400-02	.6499-02	.6499-02	.9000	.2345-03	.2822-03	.1820	1.429	535.6
80	17.574	1.5720	2404.0	.3691-02	.4431-02	.4431-02	.9000	.1599-03	.1924-03	.1239	.9208	536.4
80	19.845	1.5720	2410.0	.5237-02	.6302-02	.6302-02	.9000	.2274-03	.2737-03	.1765	1.182	535.5
80	22.000	.86800	2156.0	.4658-02	.5603-02	.5603-02	.9000	.2023-03	.2433-03	.1574	1.335	533.8
80	22.000	1.5720	2155.0	.2288-02	.2747-02	.2747-02	.9000	.9937-04	.1193-03	.7799-01	.5709	526.9
80	22.610	.14000-01	2036.0	.7275-02	.8754-02	.8754-02	.9000	.3159-03	.3802-03	.2452	1.974	535.5
80	22.640	.30800	2160.0	.5598-02	.6733-02	.6733-02	.9000	.2431-03	.2924-03	.1892	1.385	533.4

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN14)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
80	22.640	.86800	2159.0	.5887-02	.7082-02	.7082-02	.9000	.2557-03	.3075-03	.1989	1.687	533.9
80	22.640	1.2180	2158.0	.5347-02	.6432-02	.6432-02	.9000	.2322-03	.2793-03	.1806	1.631	533.9
80	22.640	1.5820	2157.0	.3511-02	.4212-02	.4212-02	.9000	.1525-03	.1829-03	.1201	.8864	523.9



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1588

OH84B 60-0 UPPER MID FUSELAGE

(R4UN14)

UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000    ALPHA = 35.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
133	3.692	8.000	35.03	-.6868-03	854.7	1352.	97.95	.8755-01	3.922	3881.	.2413-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
133	.4917-01	.2106-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
133	9.7050	.67200	2088.0	.3375-02	.4051-02	.4051-02	.9000	.1659-03	.1992-03	.1343	1.152	542.1
133	9.7170	1.7090	2089.0	.1407-01	.1693-01	.1693-01	.9000	.6916-03	.8324-03	.5527	3.955	552.5
133	9.7990	1.1010	2087.0	.4074-02	.4892-02	.4892-02	.9000	.2003-03	.2405-03	.1620	1.165	542.8
133	10.806	.86700	2103.0	.1178-02	.1414-02	.1414-02	.9000	.5792-04	.6954-04	.4685-01	.6963	542.8
133	10.806	1.6380	2102.0	.1879-02	.2255-02	.2255-02	.9000	.9238-04	.1109-03	.7485-01	.7260	541.5
133	13.077	.86800	2125.0	.2784-02	.3340-02	.3340-02	.9000	.1369-03	.1642-03	.1112	.8558	539.7
133	13.077	1.6840	2122.0	.3850-02	.4633-02	.4633-02	.9000	.1898-03	.2278-03	.1537	1.360	541.9
133	13.107	.28000	2127.0	.1620-02	.1944-02	.1944-02	.9000	.7965-04	.9556-04	.6465-01	.5891	539.9
133	13.107	1.1280	2124.0	.1637-02	.1963-02	.1963-02	.9000	.8048-04	.9653-04	.6542-01	.4745	538.7
133	15.347	.86800	2140.0	.4086-02	.4900-02	.4900-02	.9000	.2009-03	.2409-03	.1635	1.255	538.0
133	15.347	1.5840	2139.0	.3832-02	.4597-02	.4597-02	.9000	.1884-03	.2260-03	.1531	1.015	539.0
133	17.549	1.1200	2405.0	.4312-02	.5172-02	.5172-02	.9000	.2120-03	.2543-03	.1723	1.195	538.8
133	17.574	.28000	2408.0	.3659-02	.4389-02	.4389-02	.9000	.1799-03	.2157-03	.1462	1.256	539.0
133	17.574	.56000	2407.0	.4456-02	.5345-02	.5345-02	.9000	.2191-03	.2628-03	.1781	1.401	538.7
133	17.574	.86800	2406.0	.5983-02	.7177-02	.7177-02	.9000	.2941-03	.3529-03	.2389	1.872	539.5
133	17.574	1.5720	2404.0	.5110-02	.6121-02	.6121-02	.9000	.2512-03	.3009-03	.2057	1.531	533.1
133	19.845	1.5720	2410.0	.6240-02	.7487-02	.7487-02	.9000	.3068-03	.3681-03	.2491	1.666	539.6
133	22.000	.86800	2156.0	.4483-02	.5375-02	.5375-02	.9000	.2204-03	.2643-03	.1794	1.519	537.5
133	22.000	1.5720	2155.0	.1928-02	.2311-02	.2311-02	.9000	.9477-04	.1136-03	.7721-01	.5623	537.0
133	22.610	.14000-01	2036.0	.1093-01	.1312-01	.1312-01	.9000	.5375-03	.6451-03	.4355	3.495	541.4
133	22.640	.30800	2160.0	.8045-02	.9647-02	.9647-02	.9000	.3955-03	.4743-03	.3220	2.352	537.5

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN14)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
133	22.640	.86800	2159.0	.6548-02	.7851-02	.7851-02	.9000	.3219-03	.3860-03	.2621	2.219	537.4
133	22.640	1.2180	2158.0	.5626-02	.6746-02	.6746-02	.9000	.2766-03	.3317-03	.2252	2.030	537.4
133	22.640	1.5820	2157.0	.3472-02	.4153-02	.4153-02	.9000	.1707-03	.2042-03	.1408	1.037	527.1

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN15)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
202	.5125	7.900	39.95	-10.04	103.5	1263.	93.66	.1151-01	.5026	3748.	.3316-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
202	.1739-01	.5641-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
202	9.7050	.67200	2088.0	.4255-02	.5143-02	.5143-02	.9000	.7400-04	.8946-04	.5408-01	.4662	531.9
202	9.7170	1.7090	2089.0	.3015-01	.3653-01	.3653-01	.9000	.5244-03	.6353-03	.3792	2.731	539.6
202	9.7990	1.1010	2087.0	.1086-01	.1314-01	.1314-01	.9000	.1889-03	.2286-03	.1377	.9943	534.1
202	10.806	.86700	2103.0	.4698-03	.5678-03	.5678-03	.9000	.8172-05	.9876-05	.5981-02	.8942-01	530.8
202	10.806	1.6380	2102.0	.4947-02	.5982-02	.5982-02	.9000	.8605-04	.1040-03	.6280-01	.6118	532.8
202	13.077	.86800	2125.0	.1216-02	.1469-02	.1469-02	.9000	.2115-04	.2555-04	.1550-01	.1200	529.6
202	13.077	1.6840	2122.0	.9866-02	.1193-01	.1193-01	.9000	.1716-03	.2075-03	.1253	1.115	532.3
202	13.107	.28000	2127.0	.1481-02	.1790-02	.1790-02	.9000	.2576-04	.3113-04	.1885-01	.1725	530.9
202	13.107	1.1280	2124.0	.1933-02	.2335-02	.2335-02	.9000	.3362-04	.4062-04	.2463-01	.1794	530.0
202	15.347	.86800	2140.0	.1703-02	.2057-02	.2057-02	.9000	.2962-04	.3578-04	.2174-01	.1678	528.7
202	15.347	1.5840	2139.0	.8067-02	.9749-02	.9749-02	.9000	.1403-03	.1696-03	.1027	.6836	530.7
202	17.549	1.1200	2405.0	.3511-02	.4241-02	.4241-02	.9000	.6107-04	.7376-04	.4479-01	.3123	529.1
202	17.574	.28000	2408.0	.3041-02	.3673-02	.3673-02	.9000	.5289-04	.6389-04	.3878-01	.3347	529.5
202	17.574	.56000	2407.0	.3112-02	.3760-02	.3760-02	.9000	.5414-04	.6539-04	.3971-01	.3139	529.2
202	17.574	.86800	2406.0	.2133-02	.2576-02	.2576-02	.9000	.3709-04	.4480-04	.2722-01	.2145	528.7
202	17.574	1.5720	2404.0	.1088-01	.1316-01	.1316-01	.9000	.1893-03	.2288-03	.1384	1.031	531.6
202	19.845	1.5720	2410.0	.1473-01	.1780-01	.1780-01	.9000	.2562-03	.3096-03	.1874	1.258	531.0
202	22.000	.86800	2156.0	.2014-02	.2432-02	.2432-02	.9000	.3503-04	.4229-04	.2574-01	.2190	527.9
202	22.000	1.5720	2155.0	.9134-02	.1104-01	.1104-01	.9000	.1589-03	.1919-03	.1164	.8508	529.9
202	22.610	.14000-01	2036.0	.2973-02	.3590-02	.3590-02	.9000	.5171-04	.6244-04	.3799-01	.3070	527.9
202	22.640	.30800	2160.0	.2520-02	.3043-02	.3043-02	.9000	.4383-04	.5292-04	.3222-01	.2366	527.5

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN15)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
202	22.640	.86800	2159.0	.3534-02	.4267-02	.4267-02	.9000	.6146-04	.7421-04	.4516-01	.3642	527.9
202	22.640	1.2180	2159.0	.5159-02	.6230-02	.6230-02	.9000	.8972-04	.1084-03	.6589-01	.5967	528.3
202	22.640	1.5820	2157.0	.9923-02	.1199-01	.1199-01	.9000	.1726-03	.2085-03	.1266	.9317	529.2

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1592

OH84B 60-0 UPPER MID FUSELAGE

(R4UN15)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
189	1.002	7.940	39.96	-10.05	203.7	1257.	92.34	.2191-01	.9670	3740.	.6404-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
189	.2410-01	.4057-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
189	9.7050	.67200	2088.0	.3441-02	.4163-02	.4163-02	.9000	.8294-04	.1004-03	.6007-01	.5178	532.4
189	9.7170	1.7090	2089.0	.2729-01	.3310-01	.3310-01	.9000	.6579-03	.7979-03	.4711	3.391	540.6
189	9.7990	1.1010	2087.0	.9678-02	.1172-01	.1172-01	.9000	.2333-03	.2824-03	.1685	1.217	534.3
189	10.806	.86700	2103.0	.1994-03	.2411-03	.2411-03	.9000	.4805-05	.5812-05	.3487-02	.5213-01	531.1
189	10.806	1.6380	2102.0	.4164-02	.5039-02	.5039-02	.9000	.1004-03	.1215-03	.7263-01	.7074	533.1
189	13.077	.86900	2125.0	.1058-02	.1279-02	.1279-02	.9000	.2550-04	.3082-04	.1853-01	.1434	529.7
189	13.077	1.6840	2122.0	.8874-02	.1074-01	.1074-01	.9000	.2139-03	.2589-03	.1546	1.374	533.8
189	13.107	.28000	2127.0	.1759-02	.2127-02	.2127-02	.9000	.4239-04	.5127-04	.3075-01	.2814	531.3
189	13.107	1.1280	2124.0	.1453-02	.1757-02	.1757-02	.9000	.3502-04	.4235-04	.2544-01	.1853	530.3
189	15.347	.86800	2140.0	.1699-02	.2053-02	.2053-02	.9000	.4095-04	.4949-04	.2979-01	.2298	529.1
189	15.347	1.5840	2139.0	.7120-02	.8613-02	.8613-02	.9000	.1716-03	.2076-03	.1244	.8274	531.9
189	17.549	1.1200	2405.0	.2483-02	.3002-02	.3002-02	.9000	.5985-04	.7236-04	.4352-01	.3033	529.6
189	17.574	.28000	2408.0	.3416-02	.4130-02	.4130-02	.9000	.8234-04	.9955-04	.5986-01	.5166	529.7
189	17.574	.56000	2407.0	.3914-02	.4732-02	.4732-02	.9000	.9434-04	.1141-03	.6857-01	.5418	529.8
189	17.574	.86800	2406.0	.3126-02	.3779-02	.3779-02	.9000	.7534-04	.9108-04	.5479-01	.4314	529.5
189	17.574	1.5720	2404.0	.8349-02	.1010-01	.1010-01	.9000	.2012-03	.2435-03	.1458	1.085	532.3
189	19.845	1.5720	2410.0	.1365-01	.1651-01	.1651-01	.9000	.3289-03	.3980-03	.2382	1.599	532.4
189	22.000	.86800	2156.0	.1974-02	.2386-02	.2386-02	.9000	.4758-04	.5750-04	.3465-01	.2948	528.4
189	22.000	1.5720	2155.0	.1286-01	.1555-01	.1555-01	.9000	.3099-03	.3749-03	.2245	1.639	532.3
189	22.610	.14000-01	2036.0	.4678-02	.5653-02	.5653-02	.9000	.1128-03	.1363-03	.8209-01	.6630	528.6
189	22.640	.30800	2160.0	.4640-02	.5608-02	.5608-02	.9000	.1118-03	.1352-03	.8145-01	.5977	528.5

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN15)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
189	22.640	.86800	2159.0	.3769-02	.4557-02	.4557-02	.9000	.9086-04	.1098-03	.6609-01	.5619	529.3
189	22.640	1.2180	2159.0	.6167-02	.7459-02	.7459-02	.9000	.1487-03	.1798-03	.1079	.9756	530.9
189	22.640	1.5820	2157.0	.1559-01	.1887-01	.1887-01	.9000	.3759-03	.4549-03	.2720	1.997	533.1

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN15)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
171	2.002	7.980	39.99	-10.09	434.9	1302.	94.76	.4528-01	2.018	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
171	.3504-01	.2870-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
171	9.7050	.67200	2089.0	.3273-02	.3952-02	.3952-02	.9000	.1147-03	.1385-03	.8686-01	.7441	544.3
171	9.7170	1.7090	2089.0	.2877-01	.3485-01	.3485-01	.9000	.1008-02	.1222-02	.7502	5.356	557.4
171	9.7990	1.1010	2087.0	.9577-02	.1158-01	.1158-01	.9000	.3356-03	.4056-03	.2531	1.815	547.6
171	10.806	.86700	2103.0	.2164-03	.2612-03	.2612-03	.9000	.7584-05	.9152-05	.5760-02	.8562-01	542.2
171	10.806	1.6380	2102.0	.3951-02	.4771-02	.4771-02	.9000	.1384-03	.1672-03	.1047	1.014	545.0
171	13.077	.86800	2125.0	.1495-02	.1803-02	.1803-02	.9000	.5237-04	.6317-04	.3986-01	.3068	540.5
171	13.077	1.6840	2122.0	.8512-02	.1028-01	.1028-01	.9000	.2983-03	.3603-03	.2255	1.992	545.7
171	13.107	.28000	2127.0	.2724-02	.3289-02	.3289-02	.9000	.9545-04	.1152-03	.7247-01	.6595	542.4
171	13.107	1.1280	2124.0	.1534-02	.1850-02	.1850-02	.9000	.5373-04	.6483-04	.4087-01	.2961	541.1
171	15.347	.86800	2140.0	.2782-02	.3356-02	.3356-02	.9000	.9749-04	.1176-03	.7426-01	.5697	540.0
171	15.347	1.5840	2139.0	.6348-02	.7662-02	.7662-02	.9000	.2224-03	.2684-03	.1688	1.117	542.6
171	17.549	1.1200	2405.0	.4364-02	.5265-02	.5265-02	.9000	.1529-03	.1845-03	.1163	.8054	541.4
171	17.574	.28000	2408.0	.7509-02	.9061-02	.9061-02	.9000	.2631-03	.3175-03	.1999	1.715	541.8
171	17.574	.56000	2407.0	.6669-02	.8069-02	.8069-02	.9000	.2343-03	.2827-03	.1782	1.400	541.1
171	17.574	.86800	2406.0	.4508-02	.5439-02	.5439-02	.9000	.1580-03	.1906-03	.1201	.9406	541.1
171	17.574	1.5720	2404.0	.8778-02	.1060-01	.1060-01	.9000	.3076-03	.3714-03	.2329	1.723	544.5
171	19.845	1.5720	2410.0	.1126-01	.1360-01	.1360-01	.9000	.3946-03	.4764-03	.2992	1.996	543.5
171	22.000	.86800	2156.0	.3138-02	.3783-02	.3783-02	.9000	.1099-03	.1325-03	.8390-01	.7100	538.5
171	22.000	1.5720	2155.0	.1091-01	.1317-01	.1317-01	.9000	.3622-03	.4613-03	.2902	2.108	542.3
171	22.610	.14000-01	2036.0	.9557-02	.1152-01	.1152-01	.9000	.3349-03	.4038-03	.2553	2.051	539.2
171	22.640	.30800	2160.0	.8199-02	.9885-02	.9885-02	.9000	.2873-03	.3464-03	.2192	1.600	538.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN15)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
171	22.640	.86800	2159.0	.5496-02	.6627-02	.6627-02	.9000	.1926-03	.2322-03	.1468	1.242	539.1
171	22.640	1.2180	2158.0	.8963-02	.1081-01	.1081-01	.9000	.3140-03	.3789-03	.2388	2.148	541.3
171	22.640	1.5820	2157.0	.1873-01	.2256-01	.2256-01	.9000	.6563-03	.7906-03	.5028	3.689	535.5



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1596

OH84B 60-0 UPPER MID FUSELAGE

(R4UN15)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -10.00    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	O PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
99	2.993	7.990	40.02	-10.10	670.6	1326.	96.29	.6925-01	3.095	3843.	.1941-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
99	.4353-01	.2343-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
99	9.7050	.67200	2088.0	.3075-02	.3702-02	.3702-02	.9000	.1338-03	.1611-03	.1047	.8973	543.4
99	9.7170	1.7090	2089.0	.2827-01	.3420-01	.3420-01	.9000	.1230-02	.1489-02	.9404	6.700	561.3
99	9.7990	1.1010	2087.0	.9642-02	.1162-01	.1162-01	.9000	.4197-03	.5058-03	.3267	2.344	547.1
99	10.806	.86700	2103.0	.2807-03	.3377-03	.3377-03	.9000	.1222-04	.1470-04	.9588-02	.1426	540.8
99	10.806	1.6380	2102.0	.3910-02	.4709-02	.4709-02	.9000	.1702-03	.2050-03	.1329	1.287	544.5
99	13.077	.86800	2125.0	.2373-02	.2854-02	.2854-02	.9000	.1033-03	.1242-03	.8120-01	.6252	539.5
99	13.077	1.6840	2122.0	.8392-02	.1011-01	.1011-01	.9000	.3653-03	.4399-03	.2853	2.522	544.5
99	13.107	.28000	2127.0	.3264-02	.3927-02	.3927-02	.9000	.1421-03	.1709-03	.1116	1.017	539.9
99	13.107	1.1280	2124.0	.1697-02	.2042-02	.2042-02	.9000	.7387-04	.6886-04	.5807-01	.4210	539.5
99	15.347	.86800	2140.0	.4058-02	.4892-02	.4892-02	.9000	.1771-03	.2129-03	.1394	1.070	538.4
99	15.347	1.5840	2139.0	.7423-02	.8933-02	.8933-02	.9000	.3231-03	.3888-03	.2533	1.676	541.7
99	17.549	1.1200	2405.0	.5346-02	.6432-02	.6432-02	.9000	.2327-03	.2800-03	.1828	1.267	540.3
99	17.574	.28000	2408.0	.7529-02	.9059-02	.9059-02	.9000	.3277-03	.3943-03	.2573	2.209	540.4
99	17.574	.56000	2407.0	.8378-02	.1008-01	.1008-01	.9000	.3646-03	.4387-03	.2864	2.251	540.3
99	17.574	.86800	2406.0	.5930-02	.7134-02	.7134-02	.9000	.2581-03	.3105-03	.2028	1.588	540.1
99	17.574	1.5720	2404.0	.1052-01	.1265-01	.1265-01	.9000	.4578-03	.5506-03	.3603	2.674	538.8
99	19.845	1.5720	2410.0	.1005-01	.1209-01	.1209-01	.9000	.4373-03	.5264-03	.3424	2.285	542.7
99	22.000	.86800	2156.0	.3586-02	.4312-02	.4312-02	.9000	.1561-03	.1877-03	.1230	1.041	537.7
99	22.000	1.5720	2155.0	.9366-02	.1127-01	.1127-01	.9000	.4077-03	.4907-03	.3194	2.320	542.1
99	22.610	.14000-01	2036.0	.9300-02	.1119-01	.1119-01	.9000	.4048-03	.4869-03	.3182	2.556	539.5
99	22.640	.30800	2160.0	.8522-02	.1025-01	.1025-01	.9000	.3709-03	.4460-03	.2920	2.132	538.4

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN15)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
99	22.640	.86800	2159.0	.5637-02	.6779-02	.6779-02	.9000	.2453-03	.2950-03	.1931	1.634	538.6
99	22.640	1.2180	2158.0	.8706-02	.1047-01	.1047-01	.9000	.3789-03	.4559-03	.2974	2.677	540.7
99	22.640	1.5820	2157.0	.1739-01	.2089-01	.2089-01	.9000	.7569-03	.9095-03	.5984	4.390	535.2

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN17)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
199	.4996	7.900	39.96	-3.996	99.13	1248.	92.54	.1102-01	.4813	3726.	.3213-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
199	.1699-01	.5724-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
199	9.7050	.67200	2088.0	.2510-02	.3037-02	.3037-02	.9000	.4263-04	.5158-04	.3066-01	.2648	528.4
199	9.7170	1.7090	2089.0	.1968-01	.2382-01	.2382-01	.9000	.3342-03	.4046-03	.2397	1.734	530.5
199	9.7990	1.1010	2087.0	.6656-02	.8054-02	.8054-02	.9000	.1131-03	.1368-03	.8130-01	.5888	528.6
199	10.806	.86700	2103.0	.1852-03	.2241-03	.2241-03	.9000	.3146-05	.3806-05	.2264-02	.3391-01	528.0
199	10.806	1.6380	2102.0	.2921-02	.3534-02	.3534-02	.9000	.4962-04	.6003-04	.3571-01	.3488	528.0
199	13.077	.86800	2125.0	.1126-02	.1361-02	.1361-02	.9000	.1912-04	.2312-04	.1379-01	.1069	526.6
199	13.077	1.6840	2122.0	.6257-02	.7571-02	.7571-02	.9000	.1063-03	.1286-03	.7641-01	.6808	528.7
199	13.107	.28000	2127.0	.2750-02	.3327-02	.3327-02	.9000	.4670-04	.5650-04	.3359-01	.3079	528.4
199	13.107	1.1280	2124.0	.1503-02	.1817-02	.1817-02	.9000	.2553-04	.3087-04	.1840-01	.1343	526.9
199	15.347	.86800	2140.0	.1937-02	.2341-02	.2341-02	.9000	.3289-04	.3976-04	.2375-01	.1835	525.6
199	15.347	1.5840	2139.0	.5473-02	.6618-02	.6618-02	.9000	.9295-04	.1124-03	.6699-01	.4467	527.0
199	17.549	1.1200	2405.0	.2703-02	.3267-02	.3267-02	.9000	.4591-04	.5550-04	.3314-01	.2314	525.7
199	17.574	.28000	2408.0	.2232-02	.2699-02	.2699-02	.9000	.3792-04	.4584-04	.2737-01	.2367	525.9
199	17.574	.56000	2407.0	.3130-02	.3784-02	.3784-02	.9000	.5317-04	.6428-04	.3838-01	.3038	525.9
199	17.574	.86800	2406.0	.2636-02	.3186-02	.3186-02	.9000	.4477-04	.5412-04	.3233-01	.2551	525.6
199	17.574	1.5720	2404.0	.7147-02	.8644-02	.8644-02	.9000	.1214-03	.1468-03	.8742-01	.6525	527.5
199	19.845	1.5720	2410.0	.5528-02	.6685-02	.6685-02	.9000	.9389-04	.1135-03	.6771-01	.4556	526.6
199	22.000	.86800	2156.0	.1168-02	.1411-02	.1411-02	.9000	.1983-04	.2397-04	.1434-01	.1222	524.8
199	22.000	1.5720	2155.0	.2572-02	.3109-02	.3109-02	.9000	.4368-04	.5281-04	.3155-01	.2311	525.5
199	22.610	.14000-01	2036.0	.3701-02	.4474-02	.4474-02	.9000	.6287-04	.7599-04	.4542-01	.3675	525.2
199	22.640	.30800	2160.0	.3353-02	.4053-02	.4053-02	.9000	.5695-04	.6884-04	.4116-01	.3025	525.0

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN17)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
199	22.640	.86800	2159.0	.1062-02	.1283-02	.1283-02	.9000	.1803-04	.2180-04	.1304-01	.1111	524.8
199	22.640	1.2180	2158.0	.8669-03	.1048-02	.1048-02	.9000	.1472-04	.1780-04	.1064-01	.9656-01	524.7
199	22.640	1.5820	2157.0	.1687-02	.2039-02	.2039-02	.9000	.2866-04	.3464-04	.2071-01	.1527	525.0

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1600

OH84B 60-0 UPPER MID FUSELAGE

(R4UN17)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
186	.9941	7.940	39.96	-3.989	203.8	1264.	92.86	.2192-01	.9674	3751.	.6372-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
186	.2413-01	.4070-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
186	9.7050	.67200	2088.0	.2242-02	.2710-02	.2710-02	.9000	.5411-04	.6541-04	.3959-01	.3413	532.1
186	9.7170	1.7090	2089.0	.1975-01	.2390-01	.2390-01	.9000	.4766-03	.5768-03	.3467	2.501	536.3
186	9.7990	1.1010	2087.0	.6400-02	.7739-02	.7739-02	.9000	.1545-03	.1868-03	.1128	.8154	533.1
186	10.806	.86700	2103.0	.2074-03	.2506-03	.2506-03	.9000	.5005-05	.6048-05	.3665-02	.5479-01	531.3
186	10.806	1.6380	2102.0	.2739-02	.3311-02	.3311-02	.9000	.6611-04	.7992-04	.4838-01	.4714	532.0
186	13.077	.86800	2125.0	.1004-02	.1213-02	.1213-02	.9000	.2424-04	.2928-04	.1779-01	.1377	529.7
186	13.077	1.6840	2122.0	.6016-02	.7274-02	.7274-02	.9000	.1452-03	.1755-03	.1061	.9439	532.6
186	13.107	.28000	2127.0	.4525-02	.5470-02	.5470-02	.9000	.1092-03	.1320-03	.7988-01	.7307	532.2
186	13.107	1.1280	2124.0	.1336-02	.1614-02	.1614-02	.9000	.3224-04	.3894-04	.2365-01	.1723	530.0
186	15.347	.86800	2140.0	.2421-02	.2924-02	.2924-02	.9000	.5843-04	.7057-04	.4295-01	.3313	528.7
186	15.347	1.5840	2139.0	.4641-02	.5607-02	.5607-02	.9000	.1120-03	.1353-03	.8212-01	.5466	530.5
186	17.549	1.1200	2405.0	.2204-02	.2661-02	.2661-02	.9000	.5318-04	.6423-04	.3907-01	.2724	529.0
186	17.574	.28000	2408.0	.4567-02	.5517-02	.5517-02	.9000	.1102-03	.1331-03	.8091-01	.6984	529.6
186	17.574	.56000	2407.0	.5293-02	.6393-02	.6393-02	.9000	.1277-03	.1543-03	.9375-01	.7408	529.7
186	17.574	.86800	2406.0	.3871-02	.4676-02	.4676-02	.9000	.9343-04	.1128-03	.6864-01	.5407	529.0
186	17.574	1.5720	2404.0	.6985-02	.8442-02	.8442-02	.9000	.1686-03	.2037-03	.1234	.9192	531.6
186	19.845	1.5720	2410.0	.5874-02	.7096-02	.7096-02	.9000	.1418-03	.1713-03	.1040	.6984	530.2
186	22.000	.86800	2156.0	.2063-02	.2491-02	.2491-02	.9000	.4980-04	.6012-04	.3666-01	.3119	527.6
186	22.000	1.5720	2155.0	.1876-02	.2265-02	.2265-02	.9000	.4527-04	.5466-04	.3329-01	.2435	528.3
186	22.610	.14000-01	2036.0	.3590-02	.4334-02	.4334-02	.9000	.8663-04	.1046-03	.6376-01	.5152	527.7
186	22.640	.30800	2160.0	.3815-02	.4605-02	.4605-02	.9000	.9206-04	.1111-03	.6776-01	.4975	527.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1601

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN17)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
186	22.640	.86800	2159.0	.1891-02	.2283-02	.2283-02	.9000	.4564-04	.5509-04	.3360-01	.2660	527.4
186	22.640	1.2180	2158.0	.1222-02	.1475-02	.1475-02	.9000	.2949-04	.3560-04	.2171-01	.1967	527.3
186	22.640	1.5820	2157.0	.1258-02	.1519-02	.1519-02	.9000	.3036-04	.3665-04	.2234-01	.1645	527.7

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1602

OH84B 60-0 UPPER MID FUSELAGE

(R4UN17)

UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
177	1.998	7.980	39.98	-4.010	434.6	1303.	94.84	.4525-01	2.017	3810.	.1288-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
177	.3503-01	.2872-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
177	9.7050	.67200	2088.0	.1979-02	.2384-02	.2384-02	.9000	.6931-04	.8350-04	.5312-01	.4569	536.3
177	9.7170	1.7090	2089.0	.1960-01	.2368-01	.2368-01	.9000	.6868-03	.8295-03	.5200	3.734	545.6
177	9.7990	1.1010	2087.0	.6282-02	.7573-02	.7573-02	.9000	.2201-03	.2653-03	.1682	1.212	538.3
177	10.806	.86700	2103.0	.2365-03	.2849-03	.2849-03	.9000	.8286-05	.9981-05	.6357-02	.9483-01	535.4
177	10.806	1.6380	2102.0	.2575-02	.3103-02	.3103-02	.9000	.9020-04	.1087-03	.6908-01	.6715	536.8
177	13.077	.86800	2125.0	.1251-02	.1506-02	.1506-02	.9000	.4383-04	.5276-04	.3373-01	.2606	533.1
177	13.077	1.6840	2122.0	.5433-02	.6546-02	.6546-02	.9000	.1903-03	.2293-03	.1458	1.294	536.4
177	13.107	.28000	2127.0	.6415-02	.7730-02	.7730-02	.9000	.2247-03	.2709-03	.1722	1.571	536.6
177	13.107	1.1280	2124.0	.1249-02	.1503-02	.1503-02	.9000	.4374-04	.5266-04	.3365-01	.2448	533.3
177	15.347	.86800	2140.0	.2597-02	.3125-02	.3125-02	.9000	.9098-04	.1095-03	.7013-01	.5402	531.8
177	15.347	1.5840	2139.0	.4168-02	.5018-02	.5018-02	.9000	.1460-03	.1758-03	.1123	.7461	533.6
177	17.549	1.1200	2405.0	.3333-02	.4011-02	.4011-02	.9000	.1168-03	.1405-03	.8991-01	.6257	532.6
177	17.574	.28000	2408.0	.7450-02	.8971-02	.8971-02	.9000	.2610-03	.3143-03	.2005	1.727	534.3
177	17.574	.56000	2407.0	.6010-02	.7234-02	.7234-02	.9000	.2105-03	.2534-03	.1620	1.278	533.0
177	17.574	.86800	2406.0	.3529-02	.4247-02	.4247-02	.9000	.1236-03	.1488-03	.9523-01	.7488	532.3
177	17.574	1.5720	2404.0	.5904-02	.7110-02	.7110-02	.9000	.2068-03	.2491-03	.1589	1.182	534.3
177	19.845	1.5720	2410.0	.7748-02	.9330-02	.9330-02	.9000	.2714-03	.3268-03	.2086	1.398	534.3
177	22.000	.86800	2156.0	.3292-02	.3951-02	.3951-02	.9000	.1153-03	.1387-03	.8893-01	.7553	531.4
177	22.000	1.5720	2155.0	.2425-02	.2919-02	.2919-02	.9000	.8496-04	.1022-03	.6551-01	.4783	531.7
177	22.610	.14000-01	2036.0	.4171-02	.5020-02	.5020-02	.9000	.1461-03	.1759-03	.1126	.9078	532.1
177	22.640	.30800	2160.0	.3900-02	.4692-02	.4692-02	.9000	.1366-03	.1644-03	.1054	.7723	531.2

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1603

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN17)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
177	22.640	.86800	2159.0	.3440-02	.4139-02	.4139-02	.9000	.1205-03	.1450-03	.9299-01	.7699	531.1
177	22.640	1.2180	2158.0	.2778-02	.3342-02	.3342-02	.9000	.9732-04	.1171-03	.7513-01	.6795	530.7
177	22.640	1.5820	2157.0	.3063-02	.3676-02	.3676-02	.9000	.1073-03	.1288-03	.8380-01	.6192	521.6



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1604

OH84B 60-0 UPPER MID FUSELAGE

(R4UN17)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = -4.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
95	2.992	7.990	39.99	-4.021	670.3	1326.	96.29	.6922-01	3.093	3843.	.1940-02	.7748-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) #.0175
95	.4352-01	.2344-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
95	9.7050	.67200	2088.0	.1604-02	.1928-02	.1928-02	.9000	.6990-04	.8392-04	.5501-01	.4729	537.6
95	9.7170	1.7090	2089.0	.1952-01	.2353-01	.2353-01	.9000	.8494-03	.1024-02	.6608	4.740	547.7
95	9.7990	1.1010	2087.0	.5790-02	.6965-02	.6965-02	.9000	.2520-03	.3031-03	.1980	1.426	539.9
95	10.806	.86700	2103.0	.4653-03	.5593-03	.5593-03	.9000	.2025-04	.2434-04	.1597-01	.2381	536.9
95	10.806	1.6380	2102.0	.2322-02	.2792-02	.2792-02	.9000	.1010-03	.1215-03	.7953-01	.7724	538.6
95	13.077	.86800	2125.0	.1397-02	.1679-02	.1679-02	.9000	.6081-04	.7306-04	.4807-01	.3710	535.1
95	13.077	1.6840	2122.0	.5039-02	.6059-02	.6059-02	.9000	.2193-03	.2637-03	.1726	1.530	538.5
95	13.107	.28000	2127.0	.5436-02	.6536-02	.6536-02	.9000	.2366-03	.2844-03	.1864	1.700	537.7
95	13.107	1.1280	2124.0	.1094-02	.1314-02	.1314-02	.9000	.4759-04	.5718-04	.3762-01	.2734	535.2
95	15.347	.86800	2140.0	.2796-02	.3359-02	.3359-02	.9000	.1217-03	.1462-03	.9624-01	.7403	534.7
95	15.347	1.5840	2139.0	.4129-02	.4962-02	.4962-02	.9000	.1797-03	.2159-03	.1418	.9413	536.3
95	17.549	1.1200	2405.0	.4773-02	.5736-02	.5736-02	.9000	.2077-03	.2496-03	.1640	1.139	536.1
95	17.574	.28000	2408.0	.7236-02	.8698-02	.8698-02	.9000	.3149-03	.3785-03	.2483	2.136	537.0
95	17.574	.56000	2407.0	.5978-02	.7184-02	.7184-02	.9000	.2601-03	.3126-03	.2053	1.617	536.4
95	17.574	.86800	2406.0	.4062-02	.4881-02	.4881-02	.9000	.1768-03	.2124-03	.1397	1.097	535.2
95	17.574	1.5720	2404.0	.6808-02	.8175-02	.8175-02	.9000	.2963-03	.3557-03	.2350	1.749	532.6
95	19.845	1.5720	2410.0	.1084-01	.1303-01	.1303-01	.9000	.4716-03	.5671-03	.3713	2.484	538.3
95	22.000	.86800	2156.0	.3174-02	.3814-02	.3814-02	.9000	.1381-03	.1660-03	.1092	.9254	535.3
95	22.000	1.5720	2155.0	.3163-02	.3801-02	.3801-02	.9000	.1376-03	.1654-03	.1087	.7919	536.0
95	22.610	.14000-01	2036.0	.5412-02	.6506-02	.6506-02	.9000	.2355-03	.2831-03	.1858	1.495	536.7
95	22.640	.30800	2160.0	.4741-02	.5696-02	.5696-02	.9000	.2063-03	.2479-03	.1630	1.192	535.5

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN17)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
95	22.640	.86800	2159.0	.5359-02	.6441-02	.6441-02	.9000	.2332-03	.2803-03	.1841	1.560	536.2
95	22.640	1.2180	2158.0	.4540-02	.5456-02	.5456-02	.9000	.1976-03	.2374-03	.1560	1.408	535.8
95	22.640	1.5820	2157.0	.4301-02	.5157-02	.5157-02	.9000	.1872-03	.2244-03	.1496	1.103	526.4

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1606

OH84B 60-0 UPPER MID FUSELAGE

(R4UN18)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
196	.5017	7.900	39.96	-1.993	100.6	1257.	93.21	.1118-01	.4886	3739.	.3238-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
196	.1713-01	.5706-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
196	9.7050	.67200	2088.0	.1954-02	.2363-02	.2363-02	.9000	.3348-04	.4048-04	.2431-01	.2098	530.4
196	9.7170	1.7090	2089.0	.1707-01	.2067-01	.2067-01	.9000	.2925-03	.3542-03	.2112	1.525	534.6
196	9.7990	1.1010	2087.0	.6016-02	.7276-02	.7276-02	.9000	.1031-03	.1247-03	.7477-01	.5408	531.3
196	10.806	.86700	2103.0	.1219-03	.1474-03	.1474-03	.9000	.2089-05	.2526-05	.1518-02	.2271-01	530.0
196	10.806	1.6380	2102.0	.2802-02	.3388-02	.3388-02	.9000	.4801-04	.5806-04	.3488-01	.3402	530.2
196	13.077	.86800	2125.0	.1139-02	.1376-02	.1376-02	.9000	.1951-04	.2358-04	.1421-01	.1100	528.4
196	13.077	1.6840	2122.0	.5622-02	.6798-02	.6798-02	.9000	.9633-04	.1165-03	.6995-01	.6227	530.4
196	13.107	.28000	2127.0	.2790-02	.3373-02	.3373-02	.9000	.4780-04	.5780-04	.3472-01	.3180	530.2
196	13.107	1.1280	2124.0	.1454-02	.1757-02	.1757-02	.9000	.2491-04	.3010-04	.1813-01	.1322	528.6
196	15.347	.86800	2140.0	.2073-02	.2504-02	.2504-02	.9000	.3551-04	.4290-04	.2591-01	.2001	527.1
196	15.347	1.5840	2139.0	.4766-02	.5760-02	.5760-02	.9000	.8167-04	.9870-04	.5948-01	.3963	528.4
196	17.549	1.1200	2405.0	.2545-02	.3074-02	.3074-02	.9000	.4350-04	.5268-04	.3181-01	.2220	527.2
196	17.574	.28000	2408.0	.2407-02	.2908-02	.2908-02	.9000	.4124-04	.4983-04	.3007-01	.2598	527.6
196	17.574	.56000	2407.0	.3222-02	.3893-02	.3893-02	.9000	.5521-04	.6671-04	.4026-01	.3185	527.4
196	17.574	.86800	2406.0	.2570-02	.3104-02	.3104-02	.9000	.4403-04	.5319-04	.3212-01	.2533	527.1
196	17.574	1.5720	2404.0	.5242-02	.6336-02	.6336-02	.9000	.8982-04	.1086-03	.6539-01	.4878	528.6
196	19.845	1.5720	2410.0	.4131-02	.4992-02	.4992-02	.9000	.7079-04	.8554-04	.5160-01	.3470	527.7
196	22.000	.86800	2156.0	.1278-02	.1543-02	.1543-02	.9000	.2189-04	.2644-04	.1600-01	.1363	525.8
196	22.000	1.5720	2155.0	.7869-03	.9504-03	.9504-03	.9000	.1348-04	.1628-04	.9851-02	.7214-01	526.1
196	22.610	.14000-01	2036.0	.3013-02	.3638-02	.3638-02	.9000	.5162-04	.6234-04	.3771-01	.3050	526.1
196	22.640	.30800	2160.0	.3127-02	.3776-02	.3776-02	.9000	.5357-04	.6470-04	.3915-01	.2877	525.9

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1607

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN18)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
196	22.640	.86800	2159.0	.1477-02	.1783-02	.1783-02	.9000	.2530-04	.3055-04	.1850-01	.1576	525.4
196	22.640	1.2180	2158.0	.6780-03	.8186-03	.8186-03	.9000	.1162-04	.1403-04	.8500-02	.7710-01	525.0
196	22.640	1.5820	2157.0	.9564-03	.1155-02	.1155-02	.9000	.1639-04	.1979-04	.1199-01	.8841-01	525.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(RUN18)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
 BOFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
183	1.005	7.940	39.96	-2.000	205.1	1260.	92.56	.2206-01	.9736	3745.	.6433-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
183	.2420-01	.4049-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
183	9.7050	.67200	2088.0	.1724-02	.2085-02	.2085-02	.9000	.4172-04	.5045-04	.3035-01	.2617	532.1
183	9.7170	1.7090	2089.0	.1701-01	.2059-01	.2059-01	.9000	.4115-03	.4983-03	.2976	2.147	536.5
183	9.7990	1.1010	2087.0	.5769-02	.6979-02	.6979-02	.9000	.1396-03	.1689-03	.1015	.7333	532.9
183	10.806	.86700	2103.0	.4675-03	.5654-03	.5654-03	.9000	.1131-04	.1368-04	.8233-02	.1230	531.9
183	10.806	1.6380	2102.0	.2545-02	.3077-02	.3077-02	.9000	.6158-04	.7446-04	.4483-01	.4370	531.7
183	13.077	.86800	2125.0	.1318-02	.1593-02	.1593-02	.9000	.3189-04	.3854-04	.2328-01	.1801	529.7
183	13.077	1.6840	2122.0	.5276-02	.6381-02	.6381-02	.9000	.1277-03	.1544-03	.9290-01	.8263	532.0
183	13.107	.28000	2127.0	.4604-02	.5568-02	.5568-02	.9000	.1114-03	.1347-03	.8099-01	.7408	532.6
183	13.107	1.1280	2124.0	.1481-02	.1790-02	.1790-02	.9000	.3584-04	.4331-04	.2615-01	.1905	529.8
183	15.347	.86800	2140.0	.2599-02	.3140-02	.3140-02	.9000	.6290-04	.7598-04	.4600-01	.3550	528.3
183	15.347	1.5840	2139.0	.4144-02	.5007-02	.5007-02	.9000	.1003-03	.1212-03	.7321-01	.4876	529.4
183	17.549	1.1200	2405.0	.2560-02	.3093-02	.3093-02	.9000	.6194-04	.7483-04	.4530-01	.3160	528.3
183	17.574	.28000	2408.0	.4633-02	.5600-02	.5600-02	.9000	.1121-03	.1355-03	.8185-01	.7065	529.6
183	17.574	.56000	2407.0	.6011-02	.7264-02	.7264-02	.9000	.1455-03	.1758-03	.1062	.8393	529.5
183	17.574	.86800	2406.0	.3852-02	.4666-02	.4666-02	.9000	.9345-04	.1129-03	.6832-01	.5383	528.6
183	17.574	1.5720	2404.0	.2687-02	.3248-02	.3248-02	.9000	.6503-04	.7859-04	.4745-01	.3537	529.9
183	19.845	1.5720	2410.0	.4113-02	.4869-02	.4869-02	.9000	.9351-04	.1202-03	.7272-01	.4888	528.9
183	22.000	.86800	2156.0	.2814-02	.3398-02	.3398-02	.9000	.6808-04	.8222-04	.4987-01	.4245	527.2
183	22.000	1.5720	2155.0	.8957-03	.1082-02	.1082-02	.9000	.2167-04	.2617-04	.1588-01	.1162	527.0
183	22.610	.14000-01	2036.0	.2353-02	.2842-02	.2842-02	.9000	.5695-04	.6877-04	.4170-01	.3371	527.3
183	22.640	.30800	2160.0	.3224-02	.3893-02	.3893-02	.9000	.7801-04	.9421-04	.5714-01	.4196	527.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN18)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
183	22.640	.86800	2159.0	.2871-02	.3467-02	.3467-02	.9000	.6948-04	.8390-04	.5093-01	.4336	526.7
183	22.640	1.2180	2158.0	.1522-02	.1937-02	.1837-02	.9000	.3683-04	.4446-04	.2702-01	.2450	526.0
183	22.640	1.5820	2157.0	.1150-02	.1389-02	.1389-02	.9000	.2784-04	.3360-04	.2042-01	.1506	525.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN18)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
174	1.998	7.980	39.98	-2.000	435.7	1305.	94.98	.4536-01	2.022	3813.	.1289-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
174	.3508-01	.2871-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
174	9.7050	.67200	2088.0	.1663-02	.2002-02	.2002-02	.9000	.5833-04	.7025-04	.4487-01	.3861	535.5
174	9.7170	1.7090	2089.0	.1670-01	.2015-01	.2015-01	.9000	.5858-03	.7069-03	.4461	3.207	543.1
174	9.7990	1.1010	2087.0	.5365-02	.6464-02	.6464-02	.9000	.1882-03	.2268-03	.1445	1.042	537.2
174	10.806	.86700	2103.0	.9915-03	.1194-02	.1194-02	.9000	.3479-04	.4189-04	.2675-01	.3989	535.8
174	10.806	1.6380	2102.0	.2266-02	.2729-02	.2729-02	.9000	.7951-04	.9576-04	.6111-01	.5943	536.0
174	13.077	.86800	2125.0	.2086-02	.2511-02	.2511-02	.9000	.7318-04	.8808-04	.5643-01	.4358	533.6
174	13.077	1.6840	2122.0	.4494-02	.5412-02	.5412-02	.9000	.1577-03	.1899-03	.1212	1.076	535.8
174	13.107	.28000	2127.0	.8288-02	.9985-02	.9985-02	.9000	.2908-03	.3503-03	.2231	2.036	537.3
174	13.107	1.1280	2124.0	.1150-02	.1385-02	.1385-02	.9000	.4036-04	.4858-04	.3113-01	.2264	533.3
174	15.347	.86800	2140.0	.3232-02	.3889-02	.3889-02	.9000	.1134-03	.1364-03	.8754-01	.6740	532.7
174	15.347	1.5840	2139.0	.3719-02	.4477-02	.4477-02	.9000	.1305-03	.1571-03	.1006	.6686	533.6
174	17.549	1.1200	2405.0	.3201-02	.3852-02	.3852-02	.9000	.1123-03	.1351-03	.8666-01	.6030	532.9
174	17.574	.28000	2408.0	.6496-02	.7821-02	.7821-02	.9000	.2279-03	.2744-03	.1755	1.511	534.6
174	17.574	.56000	2407.0	.6913-02	.8322-02	.8322-02	.9000	.2425-03	.2920-03	.1869	1.474	534.1
174	17.574	.86800	2406.0	.4238-02	.5101-02	.5101-02	.9000	.1487-03	.1790-03	.1147	.9015	533.3
174	17.574	1.5720	2404.0	.5280-02	.6357-02	.6357-02	.9000	.1852-03	.2230-03	.1427	1.061	534.4
174	19.845	1.5720	2410.0	.4427-02	.5329-02	.5329-02	.9000	.1553-03	.1870-03	.1197	.8027	533.9
174	22.000	.86800	2156.0	.2893-02	.3481-02	.3481-02	.9000	.1015-03	.1221-03	.7837-01	.6653	532.4
174	22.000	1.5720	2155.0	.8698-03	.1046-02	.1046-02	.9000	.3052-04	.3671-04	.2358-01	.1722	531.8
174	22.610	.14000-01	2036.0	.2965-02	.3569-02	.3569-02	.9000	.1040-03	.1252-03	.8025-01	.6467	533.3
174	22.640	.30800	2160.0	.3788-02	.4558-02	.4558-02	.9000	.1329-03	.1599-03	.1025	.7507	533.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN1B)

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
174	22.640	.86800	2159.0	.3202-02	.3853-02	.3853-02	.9000	.1123-03	.1352-03	.8674-01	.7363	532.5
174	22.640	1.2180	2158.0	.1808-02	.2175-02	.2175-02	.9000	.6344-04	.7632-04	.4904-01	.4434	531.6
174	22.640	1.5820	2157.0	.1692-02	.2030-02	.2030-02	.9000	.5935-04	.7123-04	.4644-01	.3430	522.3



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN18)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
90	3.013	7.990	40.02	-2.028	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
90	.4349-01	.2337-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
90	9.7050	.67200	2088.0	.2064-02	.2486-02	.2486-02	.9000	.8977-04	.1081-03	.6974-01	.5979	542.8
90	9.7170	1.7090	2089.0	.1652-01	.1996-01	.1996-01	.9000	.7186-03	.8680-03	.5508	3.941	553.1
90	9.7990	1.1010	2087.0	.5303-02	.6391-02	.6391-02	.9000	.2306-03	.2779-03	.1788	1.285	544.3
90	10.806	.86700	2103.0	.1478-02	.1781-02	.1781-02	.9000	.6429-04	.7746-04	.4988-01	.7409	543.8
90	10.806	1.6380	2102.0	.2133-02	.2570-02	.2570-02	.9000	.9277-04	.1118-03	.7206-01	.6984	542.9
90	13.077	.86800	2125.0	.2688-02	.3236-02	.3236-02	.9000	.1169-03	.1407-03	.9109-01	.7011	540.4
90	13.077	1.6840	2122.0	.4250-02	.5119-02	.5119-02	.9000	.1848-03	.2226-03	.1435	1.270	543.0
90	13.107	.28000	2127.0	.9282-02	.1118-01	.1118-01	.9000	.4037-03	.4864-03	.3132	2.848	543.9
90	13.107	1.1280	2124.0	.1566-02	.1885-02	.1885-02	.9000	.6810-04	.8198-04	.5310-01	.3849	539.9
90	15.347	.86800	2140.0	.3835-02	.4615-02	.4615-02	.9000	.1668-03	.2007-03	.1302	.9996	538.9
90	15.347	1.5840	2139.0	.3926-02	.4727-02	.4727-02	.9000	.1708-03	.2056-03	.1330	.8805	540.9
90	17.549	1.1200	2405.0	.4293-02	.5167-02	.5167-02	.9000	.1867-03	.2247-03	.1456	1.009	539.8
90	17.574	.28000	2408.0	.5861-02	.7057-02	.7057-02	.9000	.2549-03	.3069-03	.1985	1.703	541.0
90	17.574	.56000	2407.0	.6793-02	.8179-02	.8179-02	.9000	.2954-03	.3557-03	.2301	1.808	540.7
90	17.574	.86800	2406.0	.5429-02	.6535-02	.6535-02	.9000	.2361-03	.2842-03	.1841	1.442	540.0
90	17.574	1.5720	2404.0	.5351-02	.6445-02	.6445-02	.9000	.2327-03	.2803-03	.1810	1.341	542.0
90	19.845	1.5720	2410.0	.6279-02	.7561-02	.7561-02	.9000	.2731-03	.3288-03	.2126	1.420	541.1
90	22.000	.86800	2156.0	.2575-02	.3097-02	.3097-02	.9000	.1120-03	.1347-03	.8766-01	.7424	537.0
90	22.000	1.5720	2155.0	.3154-02	.3784-02	.3784-02	.9000	.1372-03	.1646-03	.1087	.7951	527.5
90	22.610	.14000-01	2036.0	.4548-02	.5471-02	.5471-02	.9000	.1978-03	.2379-03	.1547	1.244	537.5
90	22.640	.30800	2160.0	.3962-02	.4765-02	.4765-02	.9000	.1723-03	.2072-03	.1349	.9862	536.5



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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN21)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
193	.5035	7.900	39.99	-1.006	99.91	1248.	92.54	.1110-01	.4851	3726.	.3238-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
193	.1705-01	.5701-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
193	9.7050	.67200	2088.0	.1320-02	.1599-02	.1599-02	.9000	.2251-04	.2726-04	.1611-01	.1389	531.8
193	9.7170	1.7090	2089.0	.1491-01	.1808-01	.1808-01	.9000	.2543-03	.3083-03	.1811	1.307	535.4
193	9.7990	1.1010	2087.0	.5427-02	.6574-02	.6574-02	.9000	.9253-04	.1121-03	.6617-01	.4783	532.6
193	10.806	.86700	2103.0	.2999-03	.3632-03	.3632-03	.9000	.5114-05	.6193-05	.3663-02	.5476-01	531.3
193	10.806	1.6380	2102.0	.2389-02	.2893-02	.2893-02	.9000	.4073-04	.4933-04	.2916-01	.2843	531.7
193	13.077	.86800	2125.0	.9774-03	.1183-02	.1183-02	.9000	.1667-04	.2017-04	.1197-01	.9260-01	529.7
193	13.077	1.6840	2122.0	.5123-02	.6205-02	.6205-02	.9000	.8736-04	.1058-03	.6254-01	.5563	531.9
193	13.107	.28000	2127.0	.2395-02	.2901-02	.2901-02	.9000	.4084-04	.4946-04	.2925-01	.2677	531.6
193	13.107	1.1280	2124.0	.1278-02	.1547-02	.1547-02	.9000	.2180-04	.2638-04	.1564-01	.1140	529.9
193	15.347	.86800	2140.0	.1741-02	.2107-02	.2107-02	.9000	.2969-04	.3592-04	.2136-01	.1648	528.4
193	15.347	1.5840	2139.0	.4481-02	.5423-02	.5423-02	.9000	.7640-04	.9247-04	.5486-01	.3653	529.7
193	17.549	1.1200	2405.0	.2196-02	.2657-02	.2657-02	.9000	.3744-04	.4530-04	.2693-01	.1878	528.4
193	17.574	.28000	2408.0	.2251-02	.2723-02	.2723-02	.9000	.3838-04	.4644-04	.2759-01	.2382	528.9
193	17.574	.56000	2407.0	.2803-02	.3392-02	.3392-02	.9000	.4780-04	.5783-04	.3436-01	.2717	528.8
193	17.574	.86800	2406.0	.2171-02	.2626-02	.2626-02	.9000	.3701-04	.4478-04	.2662-01	.2098	528.4
193	17.574	1.5720	2404.0	.3903-02	.4725-02	.4725-02	.9000	.6656-04	.8056-04	.4778-01	.3562	529.8
193	19.845	1.5720	2410.0	.3038-02	.3676-02	.3676-02	.9000	.5181-04	.6269-04	.3724-01	.2503	528.9
193	22.000	.86800	2156.0	.1099-02	.1327-02	.1327-02	.9000	.1871-04	.2263-04	.1349-01	.1148	527.1
193	22.000	1.5720	2155.0	.1105-02	.1336-02	.1336-02	.9000	.1883-04	.2278-04	.1356-01	.9926-01	527.5
193	22.610	.14000-01	2036.0	.3777-02	.4569-02	.4569-02	.9000	.6440-04	.7791-04	.4636-01	.3746	527.8
193	22.640	.30800	2160.0	.3536-02	.4277-02	.4277-02	.9000	.6029-04	.7293-04	.4342-01	.3188	527.5

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OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH848 60-0 UPPER MID FUSELAGE

(R4UN21)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
193	22.640	.86800	2159.0	.1771-02	.2142-02	.2142-02	.9000	.3020-04	.3652-04	.2176-01	.1852	527.0
193	22.640	1.2180	2158.0	.1211-02	.1465-02	.1465-02	.9000	.2066-04	.2498-04	.1489-01	.1350	526.7
193	22.640	1.5820	2157.0	.1263-02	.1528-02	.1528-02	.9000	.2154-04	.2605-04	.1553-01	.1144	526.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN21)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
180	1.002	7.940	39.98	-1.002	205.1	1263.	92.78	.2206-01	.9736	3749.	.6418-03	.7466-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
180	.2421-01	.4055-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
180	9.7050	.67200	2088.0	.1759-02	.2129-02	.2129-02	.9000	.4259-04	.5155-04	.3095-01	.2663	535.9
180	9.7170	1.7090	2089.0	.1561-01	.1891-01	.1891-01	.9000	.3778-03	.4579-03	.2728	1.964	540.5
180	9.7990	1.1010	2087.0	.5377-02	.6510-02	.6510-02	.9000	.1302-03	.1576-03	.9448-01	.6814	536.9
180	10.806	.86700	2103.0	.5764-03	.6977-03	.6977-03	.9000	.1395-04	.1662-04	.1014-01	.1512	536.1
180	10.806	1.6380	2102.0	.2490-02	.3013-02	.3013-02	.9000	.6027-04	.7295-04	.4381-01	.4261	535.8
180	13.077	.86800	2125.0	.1441-02	.1743-02	.1743-02	.9000	.3487-04	.4218-04	.2540-01	.1961	534.3
180	13.077	1.6840	2122.0	.4907-02	.5939-02	.5939-02	.9000	.1188-03	.1438-03	.8630-01	.7660	536.1
180	13.107	.28000	2127.0	.4322-02	.5232-02	.5232-02	.9000	.1046-03	.1267-03	.7590-01	.6926	537.1
180	13.107	1.1280	2124.0	.1152-02	.1394-02	.1394-02	.9000	.2790-04	.3375-04	.2032-01	.1477	534.3
180	15.347	.86800	2140.0	.2932-02	.3545-02	.3545-02	.9000	.7097-04	.8583-04	.5178-01	.3986	533.1
180	15.347	1.5840	2139.0	.3920-02	.4741-02	.4741-02	.9000	.9488-04	.1148-03	.6916-01	.4596	533.8
180	17.549	1.1200	2405.0	.2574-02	.3113-02	.3113-02	.9000	.6232-04	.7536-04	.4546-01	.3163	533.1
180	17.574	.28000	2408.0	.4635-02	.5607-02	.5607-02	.9000	.1122-03	.1357-03	.8168-01	.7032	534.7
180	17.574	.56000	2407.0	.5728-02	.6930-02	.6930-02	.9000	.1387-03	.1677-03	.1010	.7957	534.6
180	17.574	.86800	2406.0	.4120-02	.4983-02	.4983-02	.9000	.9973-04	.1206-03	.7272-01	.5714	533.5
180	17.574	1.5720	2404.0	.4841-02	.5856-02	.5856-02	.9000	.1172-03	.1418-03	.8533-01	.6346	534.5
180	19.845	1.5720	2410.0	.2888-02	.3492-02	.3492-02	.9000	.6991-04	.8454-04	.5101-01	.3421	533.1
180	22.000	.86800	2156.0	.2664-02	.3221-02	.3221-02	.9000	.6450-04	.7797-04	.4714-01	.4002	531.8
180	22.000	1.5720	2155.0	.1007-02	.1217-02	.1217-02	.9000	.2438-04	.2946-04	.1783-01	.1302	531.3
180	22.610	.14000-01	2036.0	.1745-02	.2109-02	.2109-02	.9000	.4224-04	.5106-04	.3086-01	.2488	532.0
180	22.640	.30800	2160.0	.2457-02	.2983-02	.2983-02	.9000	.5973-04	.7220-04	.4365-01	.3198	531.8

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(RUN21)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
180	22.640	.86800	2159.0	.2742-02	.3315-02	.3315-02	.9000	.6638-04	.8024-04	.4855-01	.4124	531.3
180	22.640	1.2180	2159.0	.1835-02	.2217-02	.2217-02	.9000	.4441-04	.5367-04	.3252-01	.2941	530.6
180	22.640	1.5820	2157.0	.1478-02	.1786-02	.1786-02	.9000	.3578-04	.4323-04	.2620-01	.1927	530.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1618

OH84B 60-0 UPPER MID FUSELAGE

(R4UN21)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
 BOFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
168	2.006	7.980	40.02	-1.016	435.8	1302.	94.76	.4537-01	2.023	3808.	.1292-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
168	.3507-01	.2867-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
168	9.7050	.67200	2088.0	.2402-02	.2900-02	.2900-02	.9000	.8424-04	.1017-03	.6385-01	.5472	543.7
168	9.7170	1.7090	2089.0	.1546-01	.1869-01	.1869-01	.9000	.5422-03	.6556-03	.4079	2.924	549.3
168	9.7990	1.1010	2087.0	.4772-02	.5764-02	.5764-02	.9000	.1674-03	.2022-03	.1267	.9098	545.0
168	10.806	.86700	2103.0	.1333-02	.1609-02	.1609-02	.9000	.4674-04	.5644-04	.3542-01	.5261	543.9
168	10.806	1.6380	2102.0	.2002-02	.2418-02	.2418-02	.9000	.7024-04	.8480-04	.5325-01	.5159	543.6
168	13.077	.86800	2125.0	.2854-02	.3444-02	.3444-02	.9000	.1001-03	.1208-03	.7603-01	.5846	542.2
168	13.077	1.6840	2122.0	.4135-02	.4993-02	.4993-02	.9000	.1450-03	.1751-03	.1098	.9702	544.7
168	13.107	.28000	2127.0	.7727-02	.9335-02	.9335-02	.9000	.2710-03	.3274-03	.2049	1.862	545.7
168	13.107	1.1280	2124.0	.1182-02	.1426-02	.1426-02	.9000	.4145-04	.5002-04	.3149-01	.2281	541.8
168	15.347	.86800	2140.0	.3598-02	.4341-02	.4341-02	.9000	.1262-03	.1523-03	.9589-01	.7350	541.8
168	15.347	1.5840	2139.0	.3146-02	.3798-02	.3798-02	.9000	.1104-03	.1332-03	.8373-01	.5538	542.9
168	17.549	1.1200	2405.0	.3096-02	.3736-02	.3736-02	.9000	.1086-03	.1310-03	.8248-01	.5712	542.1
168	17.574	.28000	2408.0	.6271-02	.7569-02	.7569-02	.9000	.2199-03	.2655-03	.1670	1.432	542.6
168	17.574	.56000	2407.0	.7334-02	.8952-02	.8952-02	.9000	.2572-03	.3105-03	.1952	1.532	542.9
168	17.574	.86800	2406.0	.5373-02	.6484-02	.6484-02	.9000	.1885-03	.2274-03	.1432	1.120	542.0
168	17.574	1.5720	2404.0	.5277-02	.6373-02	.6373-02	.9000	.1851-03	.2235-03	.1401	1.037	544.6
168	19.845	1.5720	2410.0	.3236-02	.3905-02	.3905-02	.9000	.1135-03	.1370-03	.8621-01	.5756	542.2
168	22.000	.86800	2156.0	.3088-02	.3725-02	.3725-02	.9000	.1083-03	.1306-03	.8252-01	.6979	539.8
168	22.000	1.5720	2155.0	.1094-02	.1319-02	.1319-02	.9000	.3836-04	.4626-04	.2922-01	.2125	539.8
168	22.610	.14000-01	2036.0	.2472-02	.2980-02	.2980-02	.9000	.8670-04	.1045-03	.6622-01	.5323	537.9
168	22.640	.30800	2160.0	.3949-02	.4760-02	.4760-02	.9000	.1385-03	.1670-03	.1057	.7721	538.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN21)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
168	22.640	.86800	2159.0	.3587-02	.4325-02	.4325-02	.9000	.1258-03	.1517-03	.9598-01	.8121	538.8
168	22.640	1.2180	2158.0	.2223-02	.2680-02	.2680-02	.9000	.7796-04	.9399-04	.5947-01	.5357	538.8
168	22.640	1.5820	2157.0	.1549-02	.1863-02	.1863-02	.9000	.5433-04	.6536-04	.4194-01	.3085	529.8



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1620

OH84B 60-0 UPPER MID FUSELAGE

(R4UN21)

UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
86	3.010	7.990	40.08	-1.034	669.1	1319.	95.78	.6910-01	3.088	3833.	.1947-02	.7707-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
86	.4344-01	.2338-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
86	9.7050	.67200	2088.0	.2386-02	.2874-02	.2874-02	.9000	.1036-03	.1248-03	.8049-01	.6904	542.1
86	9.7170	1.7090	2089.0	.1596-01	.1927-01	.1927-01	.9000	.6932-03	.8369-03	.5326	3.815	550.4
86	9.7990	1.1010	2087.0	.4975-02	.5994-02	.5994-02	.9000	.2161-03	.2604-03	.1677	1.206	542.8
86	10.806	.86700	2103.0	.1596-02	.1923-02	.1923-02	.9000	.6932-04	.8351-04	.5381-01	.7999	542.4
86	10.806	1.6380	2102.0	.1983-02	.2398-02	.2388-02	.9000	.8614-04	.1037-03	.6694-01	.6492	541.5
86	13.077	.86800	2125.0	.2761-02	.3323-02	.3323-02	.9000	.1199-03	.1443-03	.9348-01	.7199	539.1
86	13.077	1.6840	2122.0	.4148-02	.4996-02	.4996-02	.9000	.1802-03	.2170-03	.1400	1.239	541.7
86	13.107	.28000	2127.0	.9605-02	.1157-01	.1157-01	.9000	.4172-03	.5027-03	.3237	2.946	542.8
86	13.107	1.1280	2124.0	.1573-02	.1892-02	.1892-02	.9000	.6830-04	.8220-04	.5327-01	.3864	538.7
86	15.347	.86800	2140.0	.3704-02	.4458-02	.4458-02	.9000	.1609-03	.1936-03	.1256	.9644	538.1
86	15.347	1.5840	2139.0	.3442-02	.4144-02	.4144-02	.9000	.1495-03	.1800-03	.1165	.7720	539.5
86	17.549	1.1200	2405.0	.3835-02	.4616-02	.4616-02	.9000	.1666-03	.2005-03	.1299	.9010	538.9
86	17.574	.28000	2408.0	.5806-02	.6989-02	.6989-02	.9000	.2522-03	.3036-03	.1964	1.687	539.7
86	17.574	.56000	2407.0	.7042-02	.8477-02	.8477-02	.9000	.3059-03	.3682-03	.2383	1.873	539.7
86	17.574	.86800	2406.0	.5679-02	.6835-02	.6835-02	.9000	.2467-03	.2969-03	.1924	1.508	538.9
86	17.574	1.5720	2404.0	.4750-02	.5719-02	.5719-02	.9000	.2063-03	.2484-03	.1606	1.191	540.4
86	19.845	1.5720	2410.0	.5319-02	.6402-02	.6402-02	.9000	.2310-03	.2781-03	.1800	1.204	539.5
86	22.000	.86800	2156.0	.2832-02	.3406-02	.3406-02	.9000	.1230-03	.1479-03	.9623-01	.8152	536.3
86	22.000	1.5720	2155.0	.6050-03	.7261-03	.7261-03	.9000	.2628-04	.3154-04	.2078-01	.1520	528.0
86	22.610	.14000-01	2036.0	.4280-02	.5148-02	.5148-02	.9000	.1859-03	.2236-03	.1454	1.169	536.7
86	22.640	.30800	2160.0	.3857-02	.4638-02	.4638-02	.9000	.1675-03	.2015-03	.1312	.9590	535.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1621

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN21)

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
86	22.640	.86800	2159.0	.3294-02	.3961-02	.3961-02	.9000	.1431-03	.1720-03	.1120	.9492	535.8
86	22.640	1.2180	2158.0	.2027-02	.2437-02	.2437-02	.9000	.8803-04	.1058-03	.6995-01	.6221	535.4
86	22.640	1.5820	2157.0	.1980-02	.2375-02	.2375-02	.9000	.8599-04	.1032-03	.6810-01	.5018	526.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN22)

UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = .0000 SFDBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
17	.5042	7.900	40.02	-.3159-02	99.80	1246.	92.40	.1109-01	.4846	3723.	.3240-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
17	.1704-01	.5699-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
17	9.7050	.67200	2088.0	.1551-02	.1881-02	.1881-02	.9000	.2643-04	.3205-04	.1878-01	.1616	535.3
17	9.7170	1.7090	2089.0	.1503-01	.1825-01	.1825-01	.9000	.2561-03	.3110-03	.1809	1.303	539.5
17	9.7990	1.1010	2087.0	.5597-02	.6788-02	.6788-02	.9000	.9535-04	.1156-03	.6769-01	.4885	535.8
17	10.806	.86700	2103.0	.1740-03	.2110-03	.2110-03	.9000	.2965-05	.3595-05	.2107-02	.3143-01	535.0
17	10.806	1.6380	2102.0	.2466-02	.2990-02	.2990-02	.9000	.4202-04	.5095-04	.2988-01	.2908	534.7
17	13.077	.86800	2125.0	.1338-02	.1621-02	.1621-02	.9000	.2280-04	.2762-04	.1625-01	.1256	532.7
17	13.077	1.6840	2122.0	.4797-02	.5816-02	.5816-02	.9000	.8173-04	.9909-04	.5813-01	.5164	534.4
17	13.107	.28000	2127.0	.2572-02	.3118-02	.3118-02	.9000	.4383-04	.5312-04	.3121-01	.2853	533.7
17	13.107	1.1280	2124.0	.1444-02	.1749-02	.1749-02	.9000	.2460-04	.2980-04	.1753-01	.1275	532.9
17	15.347	.86800	2140.0	.1979-02	.2397-02	.2397-02	.9000	.3372-04	.4084-04	.2411-01	.1858	530.9
17	15.347	1.5840	2139.0	.4082-02	.4944-02	.4944-02	.9000	.6954-04	.8424-04	.4964-01	.3302	531.9
17	17.549	1.1200	2405.0	.1767-02	.2140-02	.2140-02	.9000	.3011-04	.3646-04	.2152-01	.1499	531.0
17	17.574	.28000	2408.0	.2530-02	.3065-02	.3065-02	.9000	.4311-04	.5222-04	.3079-01	.2655	531.5
17	17.574	.56000	2407.0	.3294-02	.3990-02	.3990-02	.9000	.5613-04	.6798-04	.4011-01	.3167	531.2
17	17.574	.86800	2406.0	.2340-02	.2833-02	.2833-02	.9000	.3986-04	.4827-04	.2850-01	.2243	530.7
17	17.574	1.5720	2404.0	.4192-02	.5078-02	.5078-02	.9000	.7142-04	.8652-04	.5096-01	.3795	532.1
17	19.845	1.5720	2410.0	.1867-02	.2261-02	.2261-02	.9000	.3180-04	.3852-04	.2273-01	.1526	531.0
17	22.000	.86800	2156.0	.2189-02	.2650-02	.2650-02	.9000	.3730-04	.4516-04	.2671-01	.2270	529.7
17	22.000	1.5720	2155.0	.2230-02	.2700-02	.2700-02	.9000	.3799-04	.4600-04	.2719-01	.1987	530.0
17	22.610	.14000-01	2036.0	.9479-02	.1027-01	.1027-01	.9000	.1445-03	.1750-03	.1032	.8323	531.4
17	22.640	.30800	2160.0	.7738-02	.9370-02	.9370-02	.9000	.1318-03	.1596-03	.9424-01	.6908	530.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1623

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN22)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
17	22.640	.86800	2159.0	.3934-02	.4762-02	.4762-02	.9000	.6703-04	.8114-04	.4800-01	.4680	529.6
17	22.640	1.2180	2158.0	.2294-02	.2776-02	.2776-02	.9000	.3908-04	.4730-04	.2802-01	.2536	528.8
17	22.640	1.5820	2157.0	.2156-02	.2610-02	.2610-02	.9000	.3674-04	.4447-04	.2634-01	.1939	528.7

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1624

OH84B 60-0 UPPER MID FUSELAGE

(RUN22)

UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
33	1.016	7.940	40.01	.1050-02	206.6	1257.	92.34	.2223-01	.9808	3740.	.6496-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
33	.2428-01	.4028-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
33	9.7050	.67200	2088.0	.2146-02	.2599-02	.2599-02	.9000	.5210-04	.6308-04	.3761-01	.3238	534.8
33	9.7170	1.7090	2089.0	.1468-01	.1780-01	.1780-01	.9000	.3565-03	.4321-03	.2561	1.846	538.3
33	9.7990	1.1010	2087.0	.5043-02	.6107-02	.6107-02	.9000	.1224-03	.1483-03	.8831-01	.6374	535.4
33	10.806	.86700	2103.0	.8405-03	.1018-02	.1018-02	.9000	.2041-04	.2471-04	.1473-01	.2199	534.6
33	10.806	1.6380	2102.0	.2139-02	.2589-02	.2589-02	.9000	.5193-04	.6286-04	.3751-01	.3651	534.4
33	13.077	.86800	2125.0	.1542-02	.1866-02	.1866-02	.9000	.3744-04	.4531-04	.2708-01	.2092	533.3
33	13.077	1.6840	2122.0	.4368-02	.5299-02	.5299-02	.9000	.1060-03	.1294-03	.7654-01	.6798	534.9
33	13.107	.28000	2127.0	.3976-02	.4814-02	.4814-02	.9000	.9653-04	.1169-03	.6970-01	.6368	534.7
33	13.107	1.1280	2124.0	.9296-03	.1125-02	.1125-02	.9000	.2257-04	.2731-04	.1632-01	.1187	533.3
33	15.347	.86800	2140.0	.2946-02	.3565-02	.3565-02	.9000	.7153-04	.8655-04	.5179-01	.3988	532.6
33	15.347	1.5840	2139.0	.3491-02	.4225-02	.4225-02	.9000	.8476-04	.1026-03	.6131-01	.4075	533.3
33	17.549	1.1200	2405.0	.2521-02	.3050-02	.3050-02	.9000	.6120-04	.7405-04	.4431-01	.3084	532.6
33	17.574	.28000	2408.0	.4614-02	.5564-02	.5564-02	.9000	.1120-03	.1356-03	.8100-01	.6977	533.5
33	17.574	.56000	2407.0	.5760-02	.6972-02	.6972-02	.9000	.1398-03	.1693-03	.1011	.7973	533.7
33	17.574	.86800	2406.0	.4003-02	.4844-02	.4844-02	.9000	.9719-04	.1176-03	.7035-01	.5530	532.9
33	17.574	1.5720	2404.0	.3809-02	.4609-02	.4609-02	.9000	.9246-04	.1119-03	.6689-01	.4978	533.3
33	19.845	1.5720	2410.0	.1442-02	.1745-02	.1745-02	.9000	.3502-04	.4237-04	.2536-01	.1702	532.4
33	22.000	.86800	2156.0	.3226-02	.3903-02	.3903-02	.9000	.7833-04	.9475-04	.5679-01	.4822	531.7
33	22.000	1.5720	2155.0	.1057-02	.1278-02	.1278-02	.9000	.2566-04	.3103-04	.1862-01	.1360	531.2
33	22.610	.14000-01	2036.0	.3600-02	.4354-02	.4354-02	.9000	.8740-04	.1057-03	.6345-01	.5119	530.8
33	22.640	.30800	2160.0	.4209-02	.5090-02	.5090-02	.9000	.1022-03	.1236-03	.7420-01	.5439	530.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN22)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
33	22.640	.86800	2159.0	.4112-02	.4973-02	.4973-02	.9000	.9982-04	.1207-03	.7245-01	.6155	530.8
33	22.640	1.2180	2159.0	.2817-02	.3407-02	.3407-02	.9000	.6839-04	.8271-04	.4966-01	.4492	530.5
33	22.640	1.5820	2157.0	.1880-02	.2273-02	.2273-02	.9000	.4564-04	.5519-04	.3315-01	.2438	530.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1626

OH84B 60-0 UPPER MID FUSELAGE

(R4UN22)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = .0000    ELEVON = .0000  
 BOFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
74	2.011	7.980	40.05	-.1426-06	436.5	1301.	94.69	.4544-01	2.026	3807.	.1295-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
74	.3510-01	.2863-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
74	9.7050	.67200	2088.0	.2634-02	.3177-02	.3177-02	.9000	.9245-04	.1115-03	.7038-01	.6044	539.5
74	9.7170	1.7090	2089.0	.1538-01	.1859-01	.1859-01	.9000	.5399-03	.6523-03	.4072	2.923	546.3
74	9.7990	1.1010	2087.0	.4726-02	.5701-02	.5701-02	.9000	.1659-03	.2001-03	.1261	.9079	540.4
74	10.806	.86700	2103.0	.1407-02	.1697-02	.1697-02	.9000	.4938-04	.5957-04	.3757-01	.5591	540.0
74	10.805	1.6380	2102.0	.2210-02	.2665-02	.2665-02	.9000	.7755-04	.9352-04	.5909-01	.5739	538.7
74	13.077	.86800	2125.0	.3127-02	.3769-02	.3769-02	.9000	.1098-03	.1323-03	.8383-01	.6463	536.9
74	13.077	1.6840	2122.0	.4242-02	.5116-02	.5116-02	.9000	.1489-03	.1796-03	.1134	1.005	539.1
74	13.107	.28000	2127.0	.7420-02	.8949-02	.8949-02	.9000	.2604-03	.3141-03	.1982	1.807	539.5
74	13.107	1.1280	2124.0	.1513-02	.1823-02	.1823-02	.9000	.5309-04	.6398-04	.4058-01	.2947	536.3
74	15.347	.86800	2140.0	.3812-02	.4592-02	.4592-02	.9000	.1338-03	.1612-03	.1024	.7873	535.3
74	15.347	1.5840	2139.0	.3242-02	.3907-02	.3907-02	.9000	.1138-03	.1371-03	.8699-01	.5773	536.2
74	17.549	1.1200	2405.0	.3448-02	.4154-02	.4154-02	.9000	.1210-03	.1458-03	.9260-01	.6435	535.4
74	17.574	.28000	2408.0	.6260-02	.7544-02	.7544-02	.9000	.2197-03	.2648-03	.1679	1.444	536.6
74	17.574	.56000	2407.0	.8132-02	.9800-02	.9800-02	.9000	.2854-03	.3440-03	.2181	1.717	536.6
74	17.574	.86800	2406.0	.5650-02	.6808-02	.6808-02	.9000	.1983-03	.2389-03	.1517	1.191	535.5
74	17.574	1.5720	2404.0	.4931-02	.5938-02	.5938-02	.9000	.1731-03	.2084-03	.1328	.9879	533.5
74	19.845	1.5720	2410.0	.2996-02	.3609-02	.3609-02	.9000	.1052-03	.1267-03	.8051-01	.5395	535.0
74	22.000	.86800	2156.0	.3464-02	.4171-02	.4171-02	.9000	.1216-03	.1464-03	.9335-01	.7922	532.9
74	22.000	1.5720	2155.0	.2236-02	.2688-02	.2688-02	.9000	.7847-04	.9435-04	.6064-01	.4436	527.9
74	22.610	.14000-01	2036.0	.2651-02	.3191-02	.3191-02	.9000	.9305-04	.1120-03	.7151-01	.5765	532.1
74	22.640	.30800	2160.0	.4131-02	.4972-02	.4972-02	.9000	.1450-03	.1745-03	.1114	.8161	532.1

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1627

OH84B 60-0 UPPER MID FUSELAGE

(R4UN22)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
74	22.640	.86800	2159.0	.3906-02	.4702-02	.4702-02	.9000	.1371-03	.1650-03	.1054	.8547	532.0
74	22.640	1.2180	2158.0	.2452-02	.2951-02	.2951-02	.9000	.8607-04	.1036-03	.6620-01	.5985	531.5
74	22.640	1.5820	2157.0	.1775-02	.2131-02	.2131-02	.9000	.6229-04	.7478-04	.4851-01	.3584	521.9



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1628

OH84B 60-0 UPPER MID FUSELAGE

(R4UN22)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BOFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
83	3.029	7.990	40.06	-.1434-06	670.3	1315.	95.49	.6922-01	3.093	3827.	.1957-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
83	.4345-01	.2332-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R	TW DEG. R
83	9.7050	.67200	2088.0	.3175-02	.3824-02	.3824-02	.9000	.1380-03	.1662-03	.1068	.9173	540.2
83	9.7170	1.7090	2089.0	.1486-01	.1793-01	.1793-01	.9000	.6455-03	.7790-03	.4955	3.555	547.1
83	9.7990	1.1010	2087.0	.4475-02	.5389-02	.5389-02	.9000	.1944-03	.2342-03	.1506	1.085	540.1
83	10.806	.86700	2103.0	.2077-02	.2502-02	.2502-02	.9000	.9027-04	.1087-03	.6991-01	1.040	540.2
83	10.806	1.6380	2102.0	.1888-02	.2273-02	.2273-02	.9000	.8204-04	.9878-04	.6363-01	.6180	539.0
83	13.077	.86800	2125.0	.2642-02	.3180-02	.3180-02	.9000	.1148-03	.1382-03	.8930-01	.6885	536.9
83	13.077	1.6840	2122.0	.3746-02	.4511-02	.4511-02	.9000	.1628-03	.1960-03	.1262	1.119	539.2
83	13.107	.28000	2127.0	.8865-02	.1068-01	.1068-01	.9000	.3852-03	.4640-03	.2982	2.717	540.5
83	13.107	1.1280	2124.0	.1589-02	.1912-02	.1912-02	.9000	.6903-04	.8307-04	.5371-01	.3900	536.6
83	15.347	.86800	2140.0	.3560-02	.4283-02	.4283-02	.9000	.1547-03	.1861-03	.1205	.9264	535.8
83	15.347	1.5840	2139.0	.3534-02	.4254-02	.4254-02	.9000	.1536-03	.1848-03	.1194	.7923	537.0
83	17.549	1.1200	2405.0	.3979-02	.4787-02	.4787-02	.9000	.1729-03	.2080-03	.1345	.9344	536.5
83	17.574	.28000	2408.0	.5854-02	.7057-02	.7057-02	.9000	.2548-03	.3067-03	.1981	1.703	537.3
83	17.574	.56000	2407.0	.7658-02	.9216-02	.9216-02	.9000	.3328-03	.4005-03	.2588	2.037	537.0
83	17.574	.86800	2406.0	.6066-02	.7300-02	.7300-02	.9000	.2636-03	.3172-03	.2051	1.609	536.8
83	17.574	1.5720	2404.0	.5232-02	.6298-02	.6298-02	.9000	.2274-03	.2737-03	.1767	1.312	537.6
83	19.845	1.5720	2410.0	.3476-02	.4183-02	.4183-02	.9000	.1510-03	.1817-03	.1176	.7872	536.4
83	22.000	.86800	2156.0	.2730-02	.3282-02	.3282-02	.9000	.1186-03	.1426-03	.9259-01	.7853	534.0
83	22.000	1.5720	2155.0	.2345-02	.2815-02	.2815-02	.9000	.1019-03	.1223-03	.8012-01	.5861	528.3
83	22.610	.14000-01	2036.0	.4279-02	.5147-02	.5147-02	.9000	.1859-03	.2236-03	.1450	1.168	534.6
83	22.640	.30800	2160.0	.3684-02	.4430-02	.4430-02	.9000	.1601-03	.1925-03	.1250	.9151	533.7

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1629

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN22)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
83	22.640	.86800	2159.0	.2931-02	.3524-02	.3524-02	.9000	.1274-03	.1531-03	.9950-01	.8442	533.4
83	22.640	1.2180	2158.0	.2175-02	.2615-02	.2615-02	.9000	.9453-04	.1136-03	.7386-01	.6671	533.3
83	22.640	1.5820	2157.0	.1844-02	.2212-02	.2212-02	.9000	.8012-04	.9610-04	.6334-01	.4674	524.1

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1630

OH84B 60-0 UPPER MID FUSELAGE

(R4UN22)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
146	3.671	8.000	40.07	-.1071-02	851.7	1354.	98.09	.8724-01	3.908	3884.	.2400-02	.7893-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
146	.4909-01	.2112-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
146	9.7050	.67200	2088.0	.4467-02	.5365-02	.5365-02	.9000	.2193-03	.2634-03	.1775	1.520	544.5
146	9.7170	1.7090	2089.0	.1438-01	.1731-01	.1731-01	.9000	.7058-03	.8495-03	.5649	4.040	553.4
146	9.7990	1.1010	2087.0	.4407-02	.5293-02	.5293-02	.9000	.2164-03	.2599-03	.1750	1.258	544.7
146	10.806	.86700	2103.0	.2074-02	.2491-02	.2491-02	.9000	.1018-03	.1223-03	.8231-01	1.222	545.3
146	10.806	1.6380	2102.0	.1966-02	.2360-02	.2360-02	.9000	.9652-04	.1159-03	.7820-01	.7577	543.4
146	13.077	.86800	2125.0	.2945-02	.3534-02	.3534-02	.9000	.1446-03	.1735-03	.1174	.9026	541.9
146	13.077	1.6840	2122.0	.3737-02	.4488-02	.4488-02	.9000	.1835-03	.2203-03	.1486	1.314	543.9
146	13.107	.28000	2127.0	.8106-02	.9736-02	.9736-02	.9000	.3979-03	.4779-03	.3218	2.925	544.9
146	13.107	1.1280	2124.0	.2266-02	.2743-02	.2743-02	.9000	.1122-03	.1346-03	.9112-01	.6599	541.6
146	15.347	.86800	2140.0	.3447-02	.4135-02	.4135-02	.9000	.1692-03	.2030-03	.1377	1.056	540.0
146	15.347	1.5840	2139.0	.3887-02	.4665-02	.4665-02	.9000	.1908-03	.2290-03	.1550	1.026	541.4
146	17.549	1.1200	2405.0	.4091-02	.4908-02	.4908-02	.9000	.2008-03	.2409-03	.1632	1.131	540.9
146	17.574	.28000	2408.0	.5877-02	.7054-02	.7054-02	.9000	.2885-03	.3463-03	.2341	2.008	542.2
146	17.574	.56000	2407.0	.7331-02	.8798-02	.8798-02	.9000	.3599-03	.4319-03	.2922	2.295	541.8
146	17.574	.86800	2406.0	.6266-02	.7521-02	.7521-02	.9000	.3076-03	.3692-03	.2497	1.954	541.9
146	17.574	1.5720	2404.0	.1097-01	.1314-01	.1314-01	.9000	.5388-03	.6449-03	.4430	3.300	531.4
146	19.845	1.5720	2410.0	.3218-02	.3861-02	.3861-02	.9000	.1580-03	.1895-03	.1284	.8577	541.0
146	22.000	.86800	2156.0	.2697-02	.3235-02	.3235-02	.9000	.1324-03	.1588-03	.1079	.9128	538.9
146	22.000	1.5720	2155.0	.1332-02	.1597-02	.1597-02	.9000	.6539-04	.7842-04	.5327-01	.3875	539.1
146	22.610	.14000-01	2036.0	.7046-02	.8453-02	.8453-02	.9000	.3459-03	.4150-03	.2813	2.258	540.5
146	22.640	.30800	2160.0	.5192-02	.6225-02	.6225-02	.9000	.2549-03	.3056-03	.2078	1.517	538.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN22)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
146	22.640	.86800	2159.0	.2894-02	.3470-02	.3470-02	.9000	.1421-03	.1703-03	.1159	.9614	537.7
146	22.640	1.2180	2158.0	.2117-02	.2538-02	.2538-02	.9000	.1039-03	.1246-03	.8480-01	.7643	537.5
146	22.640	1.5820	2157.0	.2076-02	.2483-02	.2483-02	.9000	.1019-03	.1219-03	.8407-01	.6189	528.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN25)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
21	.5073	7.900	40.03	1.042	101.1	1252.	92.84	.1124-01	.4910	3732.	.3268-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
21	.1717-01	.5677-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
21	9.7050	.67200	2088.0	.1913-02	.2317-02	.2317-02	.9000	.3284-04	.3977-04	.2359-01	.2032	533.4
21	9.7170	1.7090	2089.0	.1425-01	.1728-01	.1728-01	.9000	.2447-03	.2966-03	.1750	1.262	536.6
21	9.7990	1.1010	2087.0	.5226-02	.6330-02	.6330-02	.9000	.8972-04	.1087-03	.6442-01	.4654	533.6
21	10.806	.86700	2103.0	.6045-03	.7321-03	.7321-03	.9000	.1038-04	.1257-04	.7455-02	.1113	533.2
21	10.806	1.6380	2102.0	.2385-02	.2887-02	.2887-02	.9000	.4093-04	.4956-04	.2943-01	.2867	532.6
21	13.077	.86800	2125.0	.1426-02	.1725-02	.1725-02	.9000	.2447-04	.2961-04	.1764-01	.1365	530.7
21	13.077	1.6840	2122.0	.4717-02	.5711-02	.5711-02	.9000	.8098-04	.9804-04	.5825-01	.5180	532.3
21	13.107	.28000	2127.0	.2532-02	.3065-02	.3065-02	.9000	.4346-04	.5261-04	.3130-01	.2864	531.6
21	13.107	1.1280	2124.0	.1320-02	.1597-02	.1597-02	.9000	.2266-04	.2742-04	.1633-01	.1189	530.8
21	15.347	.86800	2140.0	.2231-02	.2698-02	.2698-02	.9000	.3830-04	.4632-04	.2769-01	.2136	528.7
21	15.347	1.5840	2139.0	.3843-02	.4650-02	.4650-02	.9000	.6597-04	.7981-04	.4763-01	.3171	529.8
21	17.549	1.1200	2405.0	.1898-02	.2295-02	.2295-02	.9000	.3257-04	.3939-04	.2355-01	.1642	528.7
21	17.574	.28000	2408.0	.2917-02	.3528-02	.3528-02	.9000	.5007-04	.6056-04	.3617-01	.3122	529.3
21	17.574	.56000	2407.0	.3357-02	.4060-02	.4060-02	.9000	.5762-04	.6969-04	.4165-01	.3293	528.8
21	17.574	.86800	2406.0	.2375-02	.2872-02	.2872-02	.9000	.4077-04	.4931-04	.2949-01	.2324	528.4
21	17.574	1.5720	2404.0	.4614-02	.5581-02	.5581-02	.9000	.7920-04	.9579-04	.5722-01	.4267	529.2
21	19.845	1.5720	2410.0	.1024-02	.1238-02	.1238-02	.9000	.1757-04	.2125-04	.1270-01	.8540-01	528.8
21	22.000	.86800	2156.0	.1888-02	.2282-02	.2282-02	.9000	.3241-04	.3917-04	.2348-01	.1998	527.2
21	22.000	1.5720	2155.0	.1224-02	.1480-02	.1480-02	.9000	.2101-04	.2541-04	.1522-01	.1113	527.6
21	22.610	.14000-01	2036.0	.5001-02	.6047-02	.6047-02	.9000	.8584-04	.1038-03	.6211-01	.5018	528.1
21	22.640	.30800	2160.0	.3158-02	.6236-02	.6236-02	.9000	.8854-04	.1071-03	.6411-01	.4706	527.7

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1633

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN25)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
21	22.640	.86800	2159.0	.2939-02	.3552-02	.3552-02	.9000	.5045-04	.6098-04	.3657-01	.3113	526.8
21	22.640	1.2180	2158.0	.1611-02	.1946-02	.1946-02	.9000	.2765-04	.3341-04	.2006-01	.1818	526.2
21	22.640	1.5920	2157.0	.1599-02	.1919-02	.1919-02	.9000	.2726-04	.3295-04	.1978-01	.1458	526.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1634

OH84B 60-0 UPPER MID FUSELAGE

(R4UN25)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MJ LB-SEC /FT2
36	1.022	7.940	40.06	1.017	207.1	1254.	92.12	.2228-01	.9832	3736.	.6528-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
36	.2430-01	.4018-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
36	9.7050	.67200	2088.0	.3124-02	.3784-02	.3784-02	.9000	.7590-04	.9193-04	.5458-01	.4699	534.6
36	9.7170	1.7090	2089.0	.1393-01	.1677-01	.1677-01	.9000	.3360-03	.4076-03	.2398	1.727	539.9
36	9.7990	1.1010	2087.0	.4843-02	.5867-02	.5867-02	.9000	.1177-03	.1426-03	.8453-01	.6101	535.4
36	10.806	.86700	2103.0	.1201-02	.1455-02	.1455-02	.9000	.2919-04	.3535-04	.2100-01	.3135	534.2
36	10.806	1.6380	2102.0	.2176-02	.2635-02	.2635-02	.9000	.5288-04	.6403-04	.3806-01	.3706	533.9
36	13.077	.86800	2125.0	.2130-02	.2578-02	.2578-02	.9000	.5176-04	.6264-04	.3737-01	.2889	531.7
36	13.077	1.6840	2122.0	.4235-02	.5128-02	.5128-02	.9000	.1029-03	.1246-03	.7411-01	.6587	533.5
36	13.107	.28000	2127.0	.3718-02	.4501-02	.4501-02	.9000	.9033-04	.1094-03	.6511-01	.5954	532.9
36	13.107	1.1280	2124.0	.1287-02	.1557-02	.1557-02	.9000	.3127-04	.3784-04	.2258-01	.1643	531.6
36	15.347	.86800	2140.0	.3093-02	.3741-02	.3741-02	.9000	.7514-04	.9090-04	.5436-01	.4191	530.3
36	15.347	1.5840	2139.0	.3353-02	.4056-02	.4056-02	.9000	.8146-04	.9856-04	.5887-01	.3917	531.0
36	17.549	1.1200	2405.0	.2405-02	.2910-02	.2910-02	.9000	.5844-04	.7069-04	.4228-01	.2946	530.2
36	17.574	.28000	2408.0	.5055-02	.6117-02	.6117-02	.9000	.1228-03	.1486-03	.8870-01	.7649	531.5
36	17.574	.56000	2407.0	.5848-02	.7077-02	.7077-02	.9000	.1421-03	.1719-03	.1026	.8104	531.4
36	17.574	.86800	2406.0	.4076-02	.4931-02	.4931-02	.9000	.9903-04	.1198-03	.7163-01	.5638	530.4
36	17.574	1.5720	2404.0	.3136-02	.3795-02	.3795-02	.9000	.7620-04	.9220-04	.5504-01	.4100	531.4
36	19.845	1.5720	2410.0	.7982-03	.9654-03	.9654-03	.9000	.1939-04	.2346-04	.1404-01	.9434-01	529.7
36	22.000	.86800	2156.0	.2714-02	.3281-02	.3281-02	.9000	.6593-04	.7972-04	.4779-01	.4064	528.8
36	22.000	1.5720	2155.0	.9718-03	.1175-02	.1175-02	.9000	.2361-04	.2855-04	.1712-01	.1252	528.6
36	22.610	.14000-01	2036.0	.1937-02	.2341-02	.2341-02	.9000	.4705-04	.5689-04	.3412-01	.2756	528.5
36	22.640	.30800	2160.0	.2302-02	.2783-02	.2783-02	.9000	.5593-04	.6762-04	.4057-01	.2977	528.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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## OH84B 60-0 UPPER MID FUSELAGE

(R4UN25)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
36	22.640	.86800	2159.0	.2663-02	.3219-02	.3219-02	.9000	.6470-04	.7821-04	.4694-01	.3593	528.1
36	22.640	1.2180	2158.0	.2076-02	.2509-02	.2509-02	.9000	.5044-04	.6097-04	.3662-01	.3317	527.7
36	22.640	1.5820	2157.0	.1576-02	.1905-02	.1905-02	.9000	.3829-04	.4628-04	.2781-01	.2048	527.5



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1636

OH84B 60-0 UPPER MID FUSELAGE

(R4UN25)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
71	1.998	7.980	40.08	1.028	434.2	1302.	94.76	.4520-01	2.015	3808.	.1287-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
71	.3501-01	.2872-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
71	9.7050	.67200	2088.0	.3009-02	.3629-02	.3629-02	.9000	.1053-03	.1271-03	.8025-01	.6891	539.9
71	9.7170	1.7090	2089.0	.1422-01	.1717-01	.1717-01	.9000	.4977-03	.6011-03	.3765	2.704	545.2
71	9.7990	1.1010	2087.0	.4264-02	.5143-02	.5143-02	.9000	.1493-03	.1800-03	.1137	.8187	540.0
71	10.806	.86700	2103.0	.1732-02	.2090-02	.2090-02	.9000	.6065-04	.7316-04	.4617-01	.6870	540.4
71	10.806	1.6380	2102.0	.1392-02	.2402-02	.2402-02	.9000	.6975-04	.8410-04	.5323-01	.5170	538.5
71	13.077	.86800	2125.0	.3263-02	.3932-02	.3932-02	.9000	.1142-03	.1377-03	.8736-01	.6736	536.9
71	13.077	1.6840	2122.0	.3902-02	.4705-02	.4705-02	.9700	.1366-03	.1647-03	.1042	.9239	538.7
71	13.107	.28000	2127.0	.5874-02	.7082-02	.7082-02	.9000	.2056-03	.2479-03	.1569	1.430	538.8
71	13.107	1.1280	2124.0	.1556-02	.1875-02	.1875-02	.9000	.5447-04	.6563-04	.4169-01	.3028	536.2
71	15.347	.86800	2140.0	.3989-02	.4805-02	.4805-02	.9000	.1397-03	.1682-03	.1070	.8231	535.3
71	15.347	1.5840	2139.0	.2896-02	.3409-02	.3409-02	.9000	.1014-03	.1221-03	.7763-01	.5154	535.9
71	17.549	1.1200	2405.0	.3524-02	.4245-02	.4245-02	.9000	.1234-03	.1486-03	.9456-01	.6572	535.2
71	17.574	.28000	2408.0	.6294-02	.7584-02	.7584-02	.9000	.2203-03	.2655-03	.1685	1.450	536.5
71	17.574	.56000	2407.0	.8242-02	.9931-02	.9931-02	.9000	.2885-03	.3477-03	.2208	1.739	536.3
71	17.574	.86800	2406.0	.5420-02	.6529-02	.6529-02	.9000	.1898-03	.2286-03	.1454	1.142	535.3
71	17.574	1.5720	2404.0	.3393-02	.4084-02	.4084-02	.9000	.1188-03	.1430-03	.9145-01	.6810	531.9
71	19.845	1.5720	2410.0	.1959-02	.2360-02	.2360-02	.9000	.6859-04	.8260-04	.5263-01	.3527	534.4
71	22.000	.86800	2156.0	.3548-02	.4271-02	.4271-02	.5000	.1242-03	.1495-03	.9551-01	.8106	532.8
71	22.000	1.5720	2155.0	.1053-02	.1264-02	.1264-02	.9000	.3686-04	.4426-04	.2870-01	.2105	523.1
71	22.610	.14000-01	2036.0	.2596-02	.3125-02	.3125-02	.9000	.9089-04	.1094-03	.6994-01	.5639	532.2
71	22.640	.30800	2160.0	.3464-02	.4169-02	.4169-02	.9000	.1213-03	.1460-03	.9336-01	.6839	531.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN25)

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
71	22.640	.86800	2159.0	.3774-02	.4542-02	.4542-02	.9000	.1321-03	.1590-03	.1017	.8634	532.0
71	22.640	1.2180	2158.0	.2254-02	.2712-02	.2712-02	.9000	.7890-04	.9494-04	.6078-01	.5495	531.3
71	22.640	1.5820	2157.0	.1723-02	.2068-02	.2068-02	9000	.6032-04	.7241-04	.4705-01	.3476	521.7

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1638

OH84B 60-0 UPPER MID FUSELAGE

(R4UN26)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
24	.5075	7.900	39.99	2.018	101.2	1252.	92.84	.1124-01	.4912	3732.	.3269-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
24	.1717-01	.5676-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
24	9.7050	.67200	2088.0	.1711-02	.2072-02	.2072-02	.9000	.2938-04	.3558-04	.2110-01	.1818	533.4
24	9.7170	1.7090	2089.0	.1303-01	.1580-01	.1580-01	.9000	.2238-03	.2712-03	.1600	1.154	536.6
24	9.7990	1.1010	2087.0	.4699-02	.5692-02	.5692-02	.9000	.8068-04	.9772-04	.5793-01	.4185	533.6
24	10.806	.86700	2103.0	.7354-03	.8905-03	.8905-03	.9000	.1263-04	.1529-04	.9074-02	.1355	533.0
24	10.806	1.6380	2102.0	.2070-02	.2507-02	.2507-02	.9000	.3555-04	.4304-04	.2556-01	.2490	532.5
24	13.077	.86800	2125.0	.1425-02	.1725-02	.1725-02	.9000	.2447-04	.2961-04	.1765-01	.1365	530.6
24	13.077	1.6840	2122.0	.4102-02	.4966-02	.4966-02	.9000	.7042-04	.8526-04	.5067-01	.4507	532.1
24	13.107	.28000	2127.0	.2268-02	.2745-02	.2745-02	.9000	.3893-04	.4712-04	.2805-01	.2567	531.3
24	13.107	1.1280	2124.0	.1000-02	.1210-02	.1210-02	.9000	.1717-04	.2078-04	.1238-01	.9016-01	530.7
24	15.347	.86800	2140.0	.2100-02	.2540-02	.2540-02	.9000	.3605-04	.4360-04	.2606-01	.2011	528.8
24	15.347	1.5840	2139.0	.3356-02	.4060-02	.4060-02	.9000	.5762-04	.6971-04	.4159-01	.2770	529.8
24	17.549	1.1200	2405.0	.1769-02	.2138-02	.2138-02	.9000	.3036-04	.3671-04	.2195-01	.1530	528.7
24	17.574	.28000	2408.0	.2961-02	.3581-02	.3581-02	.9000	.5084-04	.6149-04	.3673-01	.3171	529.2
24	17.574	.56000	2407.0	.3537-02	.4278-02	.4278-02	.9000	.6073-04	.7345-04	.4390-01	.3471	528.8
24	17.574	.86800	2406.0	.2229-02	.2695-02	.2695-02	.9000	.3627-04	.4627-04	.2768-01	.2181	528.4
24	17.574	1.5720	2404.0	.2838-02	.3434-02	.3434-02	.9000	.4873-04	.5896-04	.3517-01	.2621	530.0
24	19.845	1.5720	2410.0	.6578-03	.7956-03	.7956-03	.9000	.1129-04	.1366-04	.8164-02	.5488-01	528.8
24	22.000	.86800	2156.0	.1878-02	.2270-02	.2270-02	.9000	.3224-04	.3898-04	.2335-01	.1987	527.3
24	22.000	1.5720	2155.0	.7917-03	.9572-03	.9572-03	.9000	.1359-04	.1643-04	.9841-02	.7201-01	527.7
24	22.610	.14000-01	2036.0	.3245-02	.3923-02	.3923-02	.9000	.5571-04	.6736-04	.4034-01	.3260	527.6
24	22.640	.30800	2160.0	.3621-02	.4377-02	.4377-02	.9000	.6217-04	.7515-04	.4503-01	.3307	527.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1639

OH84B 60-0 UPPER MID FUSELAGE

(R4UN26)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
24	22.640	.86800	2159.0	.2646-02	.3199-02	.3199-02	.9000	.4544-04	.5492-04	.3293-01	.2603	526.9
24	22.640	1.2180	2158.0	.1463-02	.1768-02	.1768-02	.9000	.2612-04	.3036-04	.1821-01	.1651	526.5
24	22.640	1.5820	2157.0	.1195-02	.1445-02	.1445-02	.9000	.2052-04	.2480-04	.1488-01	.1096	526.6

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1640

OH84B 60-0 UPPER MID FUSELAGE

(R4UN26)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
39	1.016	7.940	40.02	2.015	206.2	1256.	92.27	.2218-01	.9789	3739.	.6489-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
39	.2425-01	.4030-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
39	9.7050	.67200	2088.0	.3430-02	.4153-02	.4153-02	.9000	.8317-04	.1007-03	.5994-01	.5160	535.0
39	9.7170	1.7090	2089.0	.1254-01	.1520-01	.1520-01	.9000	.3040-03	.3687-03	.2177	1.568	539.5
39	9.7990	1.1010	2087.0	.4378-02	.5302-02	.5302-02	.9000	.1062-03	.1286-03	.7649-01	.5522	535.2
39	10.806	.86700	2103.0	.1291-02	.1563-02	.1563-02	.9000	.3130-04	.3790-04	.2257-01	.3369	534.6
39	10.806	1.6380	2102.0	.1954-02	.2366-02	.2366-02	.9000	.4739-04	.5737-04	.3421-01	.3331	533.8
39	13.077	.86800	2125.0	.2430-02	.2940-02	.2940-02	.9000	.5893-04	.7130-04	.4266-01	.3298	531.8
39	13.077	1.6840	2122.0	.3956-02	.4788-02	.4788-02	.9000	.9593-04	.1161-03	.6928-01	.6158	533.4
39	13.107	.28000	2127.0	.3203-02	.3876-02	.3876-02	.9000	.7768-04	.9400-04	.5616-01	.5136	532.7
39	13.107	1.1280	2124.0	.1307-02	.1581-02	.1581-02	.9000	.3169-04	.3834-04	.2294-01	.1670	531.6
39	15.347	.86800	2140.0	.3198-02	.3867-02	.3867-02	.9000	.7754-04	.9378-04	.5626-01	.4337	530.2
39	15.347	1.5840	2139.0	.3096-02	.3745-02	.3745-02	.9000	.7508-04	.9082-04	.5441-01	.3621	531.0
39	17.549	1.1200	2405.0	.2222-02	.2687-02	.2687-02	.9000	.5388-04	.6516-04	.3909-01	.2724	530.1
39	17.574	.28000	2408.0	.5018-02	.6070-02	.6070-02	.9000	.1217-03	.1472-03	.8813-01	.7600	531.4
39	17.574	.56000	2407.0	.5805-02	.7022-02	.7022-02	.9000	.1408-03	.1703-03	.1020	.8053	531.2
39	17.574	.86800	2406.0	.4076-02	.4929-02	.4929-02	.9000	.9884-04	.1195-03	.7170-01	.5644	530.2
39	17.574	1.5720	2404.0	.2801-02	.3387-02	.3387-02	.9000	.6793-04	.8214-04	.4930-01	.3675	530.0
39	19.845	1.5720	2410.0	.6829-03	.8252-03	.8258-03	.9000	.1656-04	.2002-04	.1202-01	.8079-01	529.7
39	22.000	.86800	2156.0	.2633-02	.3183-02	.3183-02	.9000	.6386-04	.7719-04	.4643-01	.3949	528.5
39	22.000	1.5720	2155.0	.1411-02	.1706-02	.1706-02	.9000	.3422-04	.4137-04	.2488-01	.1820	528.6
39	22.610	.14000-01	2036.0	.1616-02	.1953-02	.1953-02	.9000	.3918-04	.4735-04	.2851-01	.2304	528.0
39	22.640	.30800	2160.0	.2118-02	.2560-02	.2560-02	.9000	.5136-04	.6207-04	.3739-01	.2745	527.7

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1641

OH84B 60-0 UPPER MID FUSELAGE

(R4UN26)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
39	22.640	.06800	2159.0	.2524-02	.3050-02	.3050-02	.9000	.6120-04	.7395-04	.4456-01	.3792	527.6
39	22.640	1.2180	2158.0	.1816-02	.2195-02	.2195-02	.9000	.4405-04	.5322-04	.3209-01	.2907	527.2
39	22.640	1.5820	2157.0	.1663-02	.2010-02	.2010-02	.9000	.4034-04	.4874-04	.2938-01	.2165	527.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1642

OH84B 60-0 UPPER MID FUSELAGE

(R4UN26)

UPPER MID FUSE

## PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000  
 BDFLAP = .0000 SPOBRK = .0000

## \*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
68	2.002	7.980	40.01	2.012	434.5	1301.	94.69	.4523-01	2.016	3907.	.1289-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
68	.3502-01	.2870-01

## \*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
68	9.7050	.67200	2088.0	.3338-02	.4027-02	.4027-02	.9000	.1169-03	.1410-03	.8882-01	.7624	540.7
68	9.7170	1.7090	2089.0	.1310-01	.1581-01	.1581-01	.9000	.4586-03	.5538-03	.3469	2.493	544.2
68	9.7990	1.1010	2087.0	.3762-02	.4538-02	.4538-02	.9000	.1317-03	.1589-03	.1002	.7218	539.9
68	10.806	.86700	2103.0	.1865-02	.2250-02	.2250-02	.9000	.6529-04	.7879-04	.4957-01	.7372	541.4
68	10.806	1.6380	2102.0	.1739-02	.2097-02	.2097-02	.9000	.6089-04	.7342-04	.4639-01	.4506	538.7
68	13.077	.86800	2125.0	.3299-02	.3977-02	.3977-02	.9000	.1155-03	.1393-03	.8817-01	.6796	537.4
68	13.077	1.6840	2122.0	.3522-02	.4247-02	.4247-02	.9000	.1233-03	.1487-03	.9394-01	.8327	538.8
68	13.107	.28000	2127.0	.4355-02	.5251-02	.5251-02	.9000	.1525-03	.1839-03	.1162	1.060	538.6
68	13.107	1.1280	2124.0	.1512-02	.1942-02	.1942-02	.9000	.5643-04	.6801-04	.4311-01	.3130	536.7
68	15.347	.86800	2140.0	.4016-02	.4839-02	.4839-02	.9000	.1406-03	.1695-03	.1076	.8273	535.6
68	15.347	1.5840	2139.0	.2704-02	.3258-02	.3258-02	.9000	.9468-04	.1141-03	.7240-01	.4806	536.0
68	17.549	1.1200	2405.0	.3374-02	.4065-02	.4065-02	.9000	.1182-03	.1423-03	.9040-01	.6282	535.5
68	17.574	.28000	2408.0	.6438-02	.7760-02	.7760-02	.9000	.2254-03	.2717-03	.1721	1.480	537.1
68	17.574	.56000	2407.0	.6957-02	.8397-02	.8397-02	.9000	.2440-03	.2940-03	.1864	1.468	536.6
68	17.574	.86800	2406.0	.5039-02	.6071-02	.6071-02	.9000	.1765-03	.2126-03	.1350	1.060	535.4
68	17.574	1.5720	2404.0	.6211-02	.7483-02	.7483-02	.9000	.2175-03	.2620-03	.1665	1.238	535.2
68	19.845	1.5720	2410.0	.8306-03	.1000-02	.1000-02	.9000	.2908-04	.3503-04	.2229-01	.1494	534.3
68	22.000	.86800	2156.0	.2942-02	.3542-02	.3542-02	.9000	.1030-03	.1240-03	.7910-01	.6713	532.9
68	22.000	1.5720	2155.0	.2215-02	.2661-02	.2661-02	.9000	.7755-04	.9317-04	.6017-01	.4410	524.7
68	22.610	.14000-01	2036.0	.2793-02	.3363-02	.3363-02	.9000	.9782-04	.1178-03	.7512-01	.6055	532.7
68	22.640	.30800	2160.0	.3125-02	.3762-02	.3762-02	.9000	.1094-03	.1317-03	.8409-01	.6159	532.2

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1643

OH84B 60-0 UPPER MID FUSELAGE

(R4UN26)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
68	22.640	.86800	2159.0	.3069-02	.3694-02	.3694-02	.9000	.1075-03	.1294-03	.8260-01	.7013	532.1
68	22.640	1.2180	2158.0	.2104-02	.2532-02	.2532-02	.9000	.7367-04	.8867-04	.5666-01	.5122	531.6
68	22.640	1.5820	2157.0	.1619-02	.1944-02	.1944-02	.9000	.5669-04	.6806-04	.4414-01	.3260	522.1



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1644

OH84B 60-0 UPPER MID FUSELAGE

(R4UN27)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 4.000    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
27	.5107	7.900	40.02	4.000	101.5	1249.	92.62	.1128-01	.4926	3727.	.3286-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
27	.1719-01	.5660-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
27	9.7050	.67200	2088.0	.3708-02	.4492-02	.4492-02	.9000	.6372-04	.7720-04	.4559-01	.3927	533.3
27	9.7170	1.7090	2089.0	.1122-01	.1361-01	.1361-01	.9000	.1929-03	.2339-03	.1375	.9922	535.9
27	9.7990	1.1010	2087.0	.4134-02	.5008-02	.5008-02	.9000	.7105-04	.8607-04	.5084-01	.3674	533.1
27	10.806	.86700	2103.0	.1115-02	.1351-02	.1351-02	.9000	.1916-04	.2321-04	.1372-01	.2049	532.9
27	10.806	1.6380	2102.0	.1900-02	.2301-02	.2301-02	.9000	.3266-04	.3955-04	.2340-01	.2280	532.1
27	13.077	.86800	2125.0	.1939-02	.2347-02	.2347-02	.9000	.3332-04	.4033-04	.2394-01	.1852	530.3
27	13.077	1.6840	2122.0	.3301-02	.3996-02	.3996-02	.9000	.5672-04	.6868-04	.4067-01	.3619	531.6
27	13.107	.28000	2127.0	.2317-02	.2805-02	.2805-02	.9000	.3982-04	.4820-04	.2858-01	.2616	530.9
27	13.107	1.1280	2124.0	.1326-02	.1606-02	.1606-02	.9000	.2280-04	.2759-04	.1638-01	.1193	530.3
27	15.347	.86800	2140.0	.2373-02	.2870-02	.2870-02	.9000	.4078-04	.4933-04	.2937-01	.2267	528.4
27	15.347	1.5840	2139.0	.2812-02	.3403-02	.3403-02	.9000	.4833-04	.5848-04	.3477-01	.2316	529.2
27	17.549	1.1200	2405.0	.1449-02	.1753-02	.1753-02	.9000	.2490-04	.3012-04	.1794-01	.1251	528.2
27	17.574	.28000	2408.0	.3117-02	.3771-02	.3771-02	.9000	.5356-04	.6481-04	.3855-01	.3329	528.9
27	17.574	.56000	2407.0	.3535-02	.4277-02	.4277-02	.9000	.6076-04	.7350-04	.4376-01	.3460	528.5
27	17.574	.86800	2406.0	.2326-02	.2813-02	.2813-02	.9000	.3997-04	.4835-04	.2881-01	.2270	528.0
27	19.845	1.5720	2410.0	.7194-03	.8703-03	.8703-03	.9000	.1236-04	.1496-04	.8906-02	.5988-01	528.3
27	22.000	.86800	2156.0	.2334-02	.2822-02	.2822-02	.9000	.4010-04	.4849-04	.2895-01	.2464	526.9
27	22.000	1.5720	2155.0	.4662-03	.5637-03	.5637-03	.9000	.8011-05	.9688-05	.5781-02	.4232-01	527.1
27	22.610	.14000-01	2036.0	.2915-02	.3525-02	.3525-02	.9000	.5009-04	.6057-04	.3615-01	.2923	526.9
27	22.640	.30800	2160.0	.2803-02	.3389-02	.3389-02	.9000	.4817-04	.5824-04	.3478-01	.2555	526.6
27	22.640	.86800	2159.0	.2369-02	.2864-02	.2864-02	.9000	.4071-04	.4922-04	.2941-01	.2504	526.2

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1645

OH84B 60-0 UPPER MID FUSELAGE

(R4UN27)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
27	22.640	1.2180	2156.0	.1848-02	.2234-02	.2234-02	.9000	.3176-04	.3839-04	.2295-01	.2081	525.9
27	22.640	1.5820	2157.0	.1434-02	.1733-02	.1733-02	.9000	.2464-04	.2978-04	.1791-01	.1313	525.9

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1646

OH84B 60-0 UPPER MID FUSELAGE

(R4UN27)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000  
 BOFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
42	1.017	7.940	39.99	4.011	205.6	1252.	91.98	.2212-01	.9761	3733.	.6491-03	.7401-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
42	.2420-01	.4028-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
42	9.7050	.67200	2088.0	.3991-02	.4837-02	.4837-02	.9000	.9659-04	.1171-03	.6912-01	.5946	536.1
42	9.7170	1.7090	2089.0	.1061-01	.1287-01	.1287-01	.9000	.2568-03	.3115-03	.1831	1.319	538.9
42	9.7990	1.1010	2087.0	.3616-02	.4382-02	.4382-02	.9000	.8752-04	.1061-03	.6268-01	.4524	535.5
42	10.806	.86700	2103.0	.1276-02	.1546-02	.1546-02	.9000	.3088-04	.3742-04	.2213-01	.3301	535.1
42	10.806	1.6380	2102.0	.1768-02	.2141-02	.2141-02	.9000	.4278-04	.5182-04	.3069-01	.2987	534.3
42	13.077	.86800	2125.0	.2989-02	.3619-02	.3619-02	.9000	.7234-04	.8758-04	.5203-01	.4020	532.4
42	13.077	1.6840	2122.0	.3231-02	.3914-02	.3914-02	.9000	.7821-04	.9472-04	.5615-01	.4990	533.7
42	13.107	.28000	2127.0	.2856-02	.3459-02	.3459-02	.9000	.6913-04	.8371-04	.4968-01	.4543	532.9
42	13.107	1.1280	2124.0	.1560-02	.1889-02	.1889-02	.9000	.3776-04	.4571-04	.2717-01	.1977	532.1
42	15.347	.86800	2140.0	.3588-02	.4342-02	.4342-02	.9000	.8685-04	.1051-03	.6261-01	.4826	530.7
42	15.347	1.5840	2139.0	.2713-02	.3284-02	.3284-02	.9000	.6566-04	.7947-04	.4730-01	.3147	531.3
42	17.549	1.1200	2405.0	.2453-02	.2968-02	.2968-02	.9000	.5937-04	.7184-04	.4281-01	.2982	530.6
42	17.574	.28000	2408.0	.4336-02	.5248-02	.5248-02	.9000	.1049-03	.1270-03	.7557-01	.6517	531.5
42	17.574	.56000	2407.0	.5377-02	.6508-02	.6508-02	.9000	.1301-03	.1575-03	.9373-01	.7400	531.4
42	17.574	.86800	2406.0	.3674-02	.4446-02	.4446-02	.9000	.8893-04	.1076-03	.6411-01	.5046	530.7
42	17.574	1.5720	2404.0	.1956-02	.2367-02	.2367-02	.9000	.4734-04	.5729-04	.3410-01	.2540	531.3
42	19.845	1.5720	2410.0	.6140-03	.7429-03	.7429-03	.9000	.1486-04	.1798-04	.1072-01	.7201-01	530.2
42	22.000	.86800	2156.0	.2407-02	.2911-02	.2911-02	.9000	.5825-04	.7044-04	.4210-01	.3580	528.8
42	22.000	1.5720	2155.0	.1383-02	.1672-02	.1672-02	.9000	.3346-04	.4047-04	.2418-01	.1768	529.0
42	22.610	.14000-01	2036.0	.2578-02	.3117-02	.3117-02	.9000	.6238-04	.7545-04	.4510-01	.3642	528.7
42	22.640	.30800	2160.0	.2536-02	.3067-02	.3067-02	.9000	.6139-04	.7423-04	.4441-01	.3259	528.3

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN27)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
42	22.640	.86800	2159.0	.2079-02	.2513-02	.2513-02	.9000	.5031-04	.6083-04	.3641-01	.3097	528.0
42	22.640	1.2180	2158.0	.1654-02	.2000-02	.2000-02	.9000	.4003-04	.4840-04	.2898-01	.2625	527.7
42	22.640	1.5820	2157.0	.1594-02	.1927-02	.1927-02	.9000	.3856-04	.4665-04	.2793-01	.2057	527.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1648

OH84B 60-0 UPPER MID FUSELAGE

(R4UN27)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
66	2.012	7.980	40.01	4.024	435.7	1299.	94.54	.4536-01	2.022	3804.	.1295-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
66	.3506-01	.2863-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
66	9.7050	.67200	2088.0	.6331-02	.7642-02	.7642-02	.9000	.2219-03	.2679-03	.1680	1.441	541.8
66	9.7170	1.7090	2089.0	.1094-01	.1322-01	.1322-01	.9000	.3835-03	.4634-03	.2891	2.076	545.0
66	9.7990	1.1010	2087.0	.3240-02	.3910-02	.3910-02	.9000	.1136-03	.1371-03	.8613-01	.6201	540.4
66	10.806	.86700	2103.0	.3651-02	.4409-02	.4409-02	.9000	.1280-03	.1545-03	.9677-01	1.438	542.7
66	10.806	1.6380	2102.0	.1698-02	.2048-02	.2048-02	.9000	.5951-04	.7179-04	.4520-01	.4389	539.2
66	13.077	.86800	2125.0	.3976-02	.4795-02	.4795-02	.9000	.1394-03	.1681-03	.1061	.8173	537.8
66	13.077	1.6840	2122.0	.3154-02	.3805-02	.3805-02	.9000	.1106-03	.1334-03	.8403-01	.7449	538.8
66	13.107	.28000	2127.0	.4405-02	.5312-02	.5312-02	.9000	.1544-03	.1862-03	.1174	1.070	538.6
66	13.107	1.1280	2124.0	.1821-02	.2195-02	.2195-02	.9000	.6384-04	.7696-04	.4863-01	.3530	536.9
66	15.347	.86800	2140.0	.4268-02	.5144-02	.5144-02	.9000	.1496-03	.1803-03	.1141	.8771	536.0
66	15.347	1.5840	2139.0	.2604-02	.3139-02	.3139-02	.9000	.9128-04	.1100-03	.6960-01	.4620	536.2
66	17.549	1.1200	2405.0	.3233-02	.3896-02	.3896-02	.9000	.1133-03	.1366-03	.8647-01	.6008	535.6
66	17.574	.28000	2408.0	.4474-02	.5393-02	.5393-02	.9000	.1569-03	.1891-03	.1195	1.028	536.5
66	17.574	.56000	2407.0	.5017-02	.6047-02	.6047-02	.9000	.1759-03	.2120-03	.1341	1.056	536.1
66	17.574	.86800	2406.0	.3677-02	.4431-02	.4431-02	.9000	.1269-03	.1553-03	.9837-01	.7723	535.6
66	17.574	1.5720	2404.0	.2576-02	.3105-02	.3105-02	.9000	.9032-04	.1088-03	.6895-01	.5126	535.2
66	19.645	1.5720	2410.0	.8190-03	.9867-03	.9867-03	.9000	.2871-04	.3459-04	.2194-01	.1470	534.5
66	22.000	.86800	2156.0	.2773-02	.3340-02	.3340-02	.9000	.9723-04	.1171-03	.7444-01	.6316	533.1
66	22.000	1.5720	2155.0	.1619-02	.1945-02	.1945-02	.9000	.5674-04	.6819-04	.4387-01	.3214	525.5
66	22.610	.14000-01	2036.0	.3786-02	.4560-02	.4560-02	.9000	.1327-03	.1598-03	.1015	.8180	533.6
66	22.640	.30800	2160.0	.3669-02	.4417-02	.4417-02	.9000	.1286-03	.1549-03	.9851-01	.7213	532.7

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1649

## OH84B 60-0 UPPER MID FUSELAGE

(R4UN27)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
66	22.640	.86800	2159.0	.3241-02	.3903-02	.3903-02	.9000	.1136-03	.1368-03	.8705-01	.7389	532.5
66	22.640	1.2180	2158.0	.2617-02	.3150-02	.3150-02	.9000	.9173-04	.1104-03	.7031-01	.6354	532.2
66	22.640	1.5820	2157.0	.1792-02	.2152-02	.2152-02	.9000	.6283-04	.7545-04	.4877-01	.3602	522.4

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1650

OH84B 60-0 UPPER MID FUSELAGE

(R4UN28)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000  
 BDFLAP = .0000 SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
30	.5116	7.900	40.08	9.969	101.8	1250.	92.69	.1131-01	.4940	3729.	.3293-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
30	.1721-01	.5655-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
30	9.7050	.67200	2088.0	.3466-02	.4201-02	.4201-02	.9000	.5966-04	.7231-04	.4262-01	.3668	535.3
30	9.7170	1.7090	2089.0	.5512-02	.6685-02	.6685-02	.9000	.9488-04	.1151-03	.6762-01	.4877	537.0
30	9.7990	1.1010	2087.0	.3376-02	.4092-02	.4092-02	.9000	.5812-04	.7043-04	.4154-01	.2999	534.9
30	10.806	.86700	2103.0	.1324-02	.1604-02	.1604-02	.9000	.2278-04	.2761-04	.1628-01	.2430	534.9
30	10.806	1.6380	2102.0	.1835-02	.2223-02	.2223-02	.9000	.3159-04	.3827-04	.2260-01	.2200	534.2
30	13.077	.86800	2125.0	.3026-02	.3665-02	.3665-02	.9000	.5209-04	.6309-04	.3732-01	.2883	533.1
30	13.077	1.6840	2122.0	.1729-02	.2094-02	.2094-02	.9000	.2976-04	.3605-04	.2131-01	.1894	533.6
30	13.107	.28000	2127.0	.1999-02	.2421-02	.2421-02	.9000	.3440-04	.4167-04	.2464-01	.2252	533.6
30	13.107	1.1280	2124.0	.1975-02	.2393-02	.2393-02	.9000	.3400-04	.4119-04	.2437-01	.1773	533.0
30	15.347	.86800	2140.0	.3442-02	.4167-02	.4167-02	.9000	.5925-04	.7173-04	.4254-01	.3277	531.7
30	15.347	1.5840	2139.0	.1362-02	.1673-02	.1673-02	.9000	.2379-04	.2880-04	.1708-01	.1136	531.7
30	17.549	1.1200	2405.0	.1588-02	.1922-02	.1922-02	.9000	.2733-04	.3309-04	.1963-01	.1367	531.5
30	17.574	.28000	2408.0	.3797-02	.4599-02	.4599-02	.9000	.6536-04	.7916-04	.4688-01	.4041	532.4
30	17.574	.56000	2407.0	.4465-02	.5407-02	.5407-02	.9000	.7686-04	.9307-04	.5514-01	.4351	532.2
30	17.574	.86800	2406.0	.3573-02	.4325-02	.4325-02	.9000	.6150-04	.7446-04	.4416-01	.3473	531.7
30	19.845	1.5720	2410.0	.7949-03	.9623-03	.9623-03	.9000	.1368-04	.1656-04	.9830-02	.6599-01	531.3
30	22.000	.86800	2156.0	.1888-02	.2285-02	.2285-02	.9000	.3250-04	.3933-04	.2339-01	.1988	529.9
30	22.000	1.5720	2155.0	.1672-02	.2023-02	.2023-02	.9000	.2878-04	.3483-04	.2071-01	.1514	530.0
30	22.610	.14000-01	2036.0	.5138-02	.6219-02	.6219-02	.9000	.8845-04	.1070-03	.6363-01	.5135	530.3
30	22.640	.30800	2160.0	.3933-02	.4758-02	.4758-02	.9000	.6770-04	.8191-04	.4875-01	.3576	529.5
30	22.640	.86800	2159.0	.1946-02	.2354-02	.2354-02	.9000	.3350-04	.4052-04	.2414-01	.2053	528.8

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN28)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
30	22.640	1.2180	2158.0	.1819-02	.2201-02	.2201-02	.9000	.3132-04	.3788-04	.2258-01	.2045	528.6
30	22.640	1.5820	2157.0	.1675-02	.2026-02	.2026-02	.9000	.2884-04	.3488-04	.2080-01	.1531	528.5



DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1652

OH84B 60-0 UPPER MID FUSELAGE

(R4UN28)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 10.00    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
45	1.021	7.940	39.96	10.01	208.6	1261.	92.64	.2244-01	.9903	3746.	.6538-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
45	.2441-01	.4017-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
45	9.7050	.67200	2088.0	.4739-02	.5736-02	.5736-02	.9000	.1157-03	.1400-03	.8386-01	.7216	535.6
45	9.7170	1.7090	2089.0	.5430-02	.6577-02	.6577-02	.9000	.1325-03	.1605-03	.9588-01	.6914	537.3
45	9.7990	1.1010	2087.0	.4136-02	.5005-02	.5005-02	.9000	.1009-03	.1222-03	.7327-01	.5290	534.8
45	10.806	.86700	2103.0	.1487-02	.1800-02	.1800-02	.9000	.3629-04	.4392-04	.2634-01	.3930	534.9
45	10.806	1.6380	2102.0	.2657-02	.3215-02	.3215-02	.9000	.6486-04	.7848-04	.4713-01	.4588	534.1
45	13.077	.86800	2125.0	.3636-02	.4397-02	.4397-02	.9000	.8874-04	.1073-03	.6462-01	.4993	532.5
45	13.077	1.6840	2122.0	.2080-02	.2516-02	.2516-02	.9000	.5077-04	.6141-04	.3695-01	.3285	532.8
45	13.107	.28000	2127.0	.2788-02	.3372-02	.3372-02	.9000	.6805-04	.8231-04	.4952-01	.4528	533.0
45	13.107	1.1280	2124.0	.2999-02	.3627-02	.3627-02	.9000	.7320-04	.8852-04	.5332-01	.3880	532.3
45	15.347	.86800	2140.0	.4891-02	.5912-02	.5912-02	.9000	.1194-03	.1443-03	.8710-01	.6713	531.0
45	15.347	1.5840	2139.0	.1378-02	.1666-02	.1666-02	.9000	.3364-04	.4066-04	.2456-01	.1634	530.6
45	17.549	1.1200	2405.0	.2946-02	.3561-02	.3561-02	.9000	.7191-04	.8691-04	.5250-01	.3657	530.6
45	17.574	.28000	2408.0	.9348-02	.1131-01	.1131-01	.9000	.2292-03	.2759-03	.1661	1.432	532.5
45	17.574	.56000	2407.0	.8647-02	.1045-01	.1045-01	.9000	.2110-03	.2552-03	.1538	1.214	531.7
45	17.574	.86800	2406.0	.5216-02	.6306-02	.6306-02	.9000	.1273-03	.1539-03	.9288-01	.7308	531.1
45	17.574	1.5720	2404.0	.1847-02	.2233-02	.2233-02	.9000	.4508-04	.5449-04	.3291-01	.2452	530.7
45	19.845	1.5720	2410.0	.1055-02	.1275-02	.1275-02	.9000	.2575-04	.3111-04	.1881-01	.1264	529.9
45	22.600	.86800	2156.0	.2644-02	.3194-02	.3194-02	.9000	.6452-04	.7795-04	.4723-01	.4017	528.7
45	22.000	1.5720	2155.0	.1936-02	.2339-02	.2339-02	.9000	.4726-04	.5710-04	.3459-01	.2529	528.9
45	22.610	.14000-01	2036.0	.5935-02	.7173-02	.7173-02	.9000	.1449-03	.1751-03	.1058	.8539	530.2
45	22.640	.30800	2160.0	.5627-02	.6799-02	.6799-02	.9000	.1373-03	.1659-03	.1004	.7366	529.4

DATE 15 JAN 82

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1653

OH84B 60-0 UPPER MID FUSELAGE

(R4UN28)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
45	22.640	.86800	2159.0	.3126-02	.3776-02	.3776-02	.9000	.7630-04	.9216-04	.5589-01	.4754	528.2
45	22.640	1.2180	2158.0	.2619-02	.3163-02	.3163-02	.9000	.6391-04	.7719-04	.4684-01	.4242	527.8
45	22.640	1.5820	2157.0	.2118-02	.2558-02	.2558-02	.9000	.5170-04	.6244-04	.3790-01	.2791	527.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 UPPER MID FUSELAGE

(R4UN28)

UPPER MID FUSE

PARAMETRIC DATA

MACH = 8.000    ALPHA = 40.00    BETA = 10.00    ELEVON = .0000  
 BDFLAP = .0000    SPDBRK = .0000

\*\*\*TEST CONDITIONS\*\*\*

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
58	1.996	7.980	40.01	10.01	434.6	1304.	94.91	.4524-01	2.017	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
58	.3503-01	.2873-01

\*\*\*TEST DATA\*\*\*

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
58	9.7050	.67200	2088.0	.6287-02	.7575-02	.7575-02	.9000	.2202-03	.2654-03	.1688	1.452	537.1
58	9.7170	1.7090	2089.0	.5591-02	.6738-02	.6738-02	.9000	.1959-03	.2361-03	.1499	1.081	538.2
58	9.7990	1.1010	2087.0	.3867-02	.4658-02	.4658-02	.9000	.1355-03	.1632-03	.1040	.7506	535.9
58	10.806	.86700	2103.0	.1793-02	.2160-02	.2160-02	.9000	.6281-04	.7567-04	.4820-01	.7186	536.3
58	10.806	1.6380	2102.0	.3160-02	.3806-02	.3806-02	.9000	.1107-03	.1334-03	.8502-01	.8270	535.7
58	13.077	.86800	2125.0	.3710-02	.4466-02	.4466-02	.9000	.1300-03	.1565-03	.1001	.7726	533.8
58	13.077	1.6840	2122.0	.2011-02	.2420-02	.2420-02	.9000	.7044-04	.8480-04	.5423-01	.4819	533.8
58	13.107	.28000	2127.0	.4993-02	.6012-02	.6012-02	.9000	.1749-03	.2106-03	.1345	1.228	535.0
58	13.107	1.1280	2124.0	.3149-02	.3791-02	.3791-02	.9000	.1103-03	.1328-03	.8498-01	.6179	533.5
58	15.347	.86800	2140.0	.7890-02	.9497-02	.9497-02	.9000	.2764-03	.3327-03	.2130	1.640	533.1
58	15.347	1.5840	2139.0	.1189-02	.1431-02	.1431-02	.9000	.4167-04	.5013-04	.3218-01	.2141	531.5
58	17.549	1.1200	2405.0	.2965-02	.3568-02	.3568-02	.9000	.1039-03	.1250-03	.8019-01	.5583	531.8
58	17.574	.28000	2408.0	.1017-01	.1224-01	.1224-01	.9000	.3563-03	.4290-03	.2740	2.359	534.6
58	17.574	.56000	2407.0	.8055-02	.9696-02	.9696-02	.9000	.2822-03	.3397-03	.2173	1.714	533.5
58	17.574	.86800	2406.0	.4720-02	.5681-02	.5681-02	.9000	.1654-03	.1990-03	.1275	1.003	532.6
58	17.574	1.5720	2404.0	.2049-02	.2465-02	.2465-02	.9000	.7179-04	.8637-04	.5545-01	.4130	531.3
58	19.845	1.5720	2410.0	.9438-03	.1135-02	.1135-02	.9000	.3306-04	.3977-04	.2555-01	.1716	530.8
58	22.000	.86800	2156.0	.5402-02	.6499-02	.6499-02	.9000	.1893-03	.2277-03	.1462	1.242	531.1
58	22.000	1.5720	2155.0	.3728-02	.4475-02	.4475-02	.9000	.1306-03	.1568-03	.1020	.7480	522.9
58	22.610	.14000-01	2036.0	.8806-02	.1060-01	.1060-01	.9000	.3085-03	.3713-03	.2378	1.916	533.0
58	22.640	.30800	2160.0	.7358-02	.8852-02	.8852-02	.9000	.2578-03	.3101-03	.1991	1.459	531.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 1655

OH84B 60-0 UPPER MID FUSELAGE

(R4UN28)

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
58	22.640	.86800	2159.0	.4286-02	.5155-02	.5155-02	.9000	.1502-03	.1806-03	.1161	.9665	530.5
58	22.640	1.2180	2158.0	.3482-02	.4188-02	.4188-02	.9000	.1220-03	.1467-03	.9438-01	.8539	530.0
58	22.640	1.5820	2157.0	.2473-02	.2966-02	.2966-02	.9000	.8663-04	.1039-03	.6792-01	.5023	519.7

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